1601 E03

STOPPING WATER POLLUTION AT ITS SOURCE

MISA

Municipal Industrial Strategy for Abatement

ST. CLAIR RIVER MISA

PILOT SITE INVESTIGATION

VOLUME II

PART III – APPENDICES

Environment Ontario

19/8/91

ISBN 0-7729-6304-5
(3 Volume set)
0-7729-6312-6
(Part I)

ST. CLAIR RIVER MISA PILOT SITE INVESTIGATION

VOLUME II
PART III - APPENDICES

Prepared by the
St. Clair River MISA Pilot Site Team

JANUARY 1991

Cette publication technique
n'est disponible qu'en anglais

Copyright: Queen's Printer for Ontario, 1990
This publication may be reproduced for non-commercial purposes
with appropriate attribution

PIBS
log 88-2320-043

FOREWORD

These Appendices comprise Volume II, part III of the St. Clair River MISA Pilot Site investigation. An earlier preliminary report of findings (Volume I) was previously released by the Ministry of the Environment in November 1987.

Volume II, parts I and II comprise the Technical Summary and Detailed Technical Findings respectively and are published separately.

The reports herein present individual analytical results for many of the investigative components which are presented in summary fashion in part II.

In addition, a users guide and example of an interactive computer program for development of load allocations as well as detailed results from modelling load allocations are provided.

Copies of parts I and II are available from the Ministry of the Environment, Water Resources Branch.

PILOT SITE TEAM MEMBERS

The St. Clair River MISA pilot site team consisted of:

S. Abernethy, Water Resources Branch, MOE
R. Boone, Water Resources Branch, MOE
D. Edwardson, Detroit, St. Clair, St. Marys River Improvement Team, MOE
R. Griffiths, Southwestern Region, MOE
K. Haniff, Detroit, St. Clair, St. Marys River Improvement Team, MOE
B. Hawkins, Southwestern Region, MOE
A. Hayton, Water Resources Branch, MOE
M. Jackson, Water Resources Branch, MOE
A. Johnson, Water Resources Branch, MOE
G. Johnson*, Coordinator, Water Resources Branch, MOE
J. Lee, Water Resources Branch, MOE
T. Lomas, Water Resources Branch, MOE
J. Luyt, Sarnia Area, MOE
J.A. McCorquodale, University of Windsor
P. Nettleton, Water Resources Branch, MOE
A. Mudroch**, National Water Research Institute, DOE
A. Rodrigues, Water Resources Branch, MOE
D. Rokosh, Water Resources Branch, MOE
W. Scheider, Water Resources Branch, MOE
K. Suns, Water Resources Branch, MOE
S. Thornley, Southwestern Region, MOE
B. Veal, Southwestern Region, MOE
G. Westlake, Water Resources Branch, MOE

* Replaced Y. Hamdy
** Replaced K. Rodgers

SYNTHESIS TEAM MEMBERS

The following individuals comprised the synthesis writing team and were responsible for writing, editing and for assembling significant portions of this report.

G. Johnson - Editor
R.J. Boone
J.A. McCorquodale
P. Nettleton
W. Scheider
D. Veal

OVERVIEW OF THE MISA INITIATIVE

Since the June 1986 release of the Ministry of the Environment's (MOE) White Paper entitled "Municipal-Industrial Strategy for Abatement (MISA)", a comprehensive abatement program has been under development to establish regulations for controlling water pollution at its source.

The White Paper provides the framework for the control of toxic metals and organic compounds; initially, through a regulatory component to enforce technology-based effluent standards. This minimum pollution control requirement will be based upon implementation of Best Available Technology for treatment which is economically achievable (BATEA).

Development of these controls will be brought about through the promulgation of two regulations:

1. The Effluent Monitoring Regulation, requiring dischargers to measure concentrations and loadings of toxic contaminants as specified in The Ontario Effluent Monitoring Priority Pollutants List (EMPPL) in the effluents; and

2. The abatement or Limits Regulation, which will specify maximum permitted amounts or loadings, of toxic pollutants for each discharger.

Technology-based limits are to be complimented by water quality-based effluent limits developed on a site specific basis. These limits will consider the sensitive nature of some water bodies where a technology-based limit is not sufficient to meet Provincial Water Quality Objectives (PWQOs) or protect the most sensitive uses. In such cases, the more stringent water quality-based effluent limits are to be established and super-imposed on the technology-based limits.

THE ST. CLAIR RIVER PILOT SITE STUDY

This report outlines findings from specific studies undertaken in the St. Clair River from May 1986 to May 1988 to assess the impacts of discharges from Dow Chemical Canada Inc. (Dow) on the river, both locally and downstream. In order to discriminate the effects of sources at Dow from potential upstream sources, additional sampling occurred at the Cole drain and Polysar Ltd. (Sarnia). As a result, specific impacts from the upstream sewers were also evaluated.

Scientific investigations have included frequent sampling at specific outfalls in the area coupled with water and sediment quality sampling and biomonitoring of the entire St. Clair River.

Data collected from these studies have been used for calibrating and subsequently verifying state-of-the-art predictive fate and transport models for the distribution of toxic contaminants in this aquatic system.

These studies have been geared to evaluating impacts of organic chemicals discharged to the St. Clair River in order to fulfill the two primary objectives of the investigation:

(i) To develop site-specific effluent requirements for hazardous and conventional pollutants for designated dischargers on the St. Clair River, based on receiving water impact assessments;

(ii) To develop and document, for application to other discharge/receiving-water situations in the Province, a variety of receiving-water assessment techniques and procedures which are: reliable, predictive, reproducible, cost efficient, time efficient, scientifically sound and easily understood.

TABLE OF CONTENTS

APPENDIX 1 LONG-TERM EFFLUENT MONITORING RESULTS

APPENDIX 2 GC/MS RESULTS FOR CONTAMINANTS MEASURED ON SUSPENDED SOLIDS FROM EFFLUENT STREAMS

APPENDIX 3 EFFLUENT AND AMBIENT SEQUENTIAL SAMPLING RESULTS

APPENDIX 4.1 GC/MS RESULTS FOR CONTAMINANTS MEASURED ON AMBIENT SUSPENDED SOLIDS

APPENDIX 4.2 CONVENTIONAL RESULTS FROM AMBIENT CENTRIFUGATION

APPENDIX 4.3 CONVENTIONAL RESULTS FROM EFFLUENT CENTRIFUGATION

APPENDIX 4.4 SURFICIAL BOTTOM SEDIMENT RESULTS

APPENDIX 5 RESULTS FROM INVESTIGATIVE AMBIENT WATER SAMPLING

APPENDIX 6a CLAM TISSUE PREPARATION FOR VOLATILES ANALYSIS

APPENDIX 6b RESULTS OF CLAM TISSUE CONTAMINANT ANALYSIS FOR SELECTED PARAMETERS

APPENDIX 7 KETOX MODELLING USERS GUIDE

APPENDIX 8 MODELLING PROGRAM FOR LOAD ALLOCATION

APPENDIX 9 LOAD ALLOCATIONS FOR WATER; BIOTA AND SEDIMENTS BY CHEMICAL AND OUTFALL

APPENDIX 1

LONG-TERM EFFLUENT MONITORING RESULTS

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(units as indicated)

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
3 220	5/15/86	6.75	0.000	0.0003	0.00	
	5/20/86	10.60	0.000	0.0000	0.00	
	5/22/86	9.35	0.000	0.0000	0.00	
	5/27/86	9.25	0.000	0.0000	0.00	
	5/29/86	7.85	0.000	0.0000	0.00	
	6/03/86	8.40	0.000	0.0000	0.00	
	6/05/86	9.20	0.000	0.0000	0.00	
	6/10/86	8.40	0.000	0.0000	0.00	
	6/12/86	12.80	0.003	0.0000	0.00	
	6/17/86	16.50	0.000	0.0000	0.00	
	6/20/86	53.00	0.000	0.0000	0.00	
	6/25/86	12.20	0.000	0.0000	0.01	
	6/27/86	14.70	0.000	0.0000	0.00	
	7/03/86	10.20	0.000	0.0000	0.00	
	7/04/86	11.10	0.000	0.0000	0.00	
	7/07/86	7.15	0.000	0.0000	0.00	
	7/10/86	9.15	0.000	0.0000	0.06	
	7/15/86	7.50	0.000	0.0000	0.00	
	7/17/86	7.50	0.004	0.0000	0.00	
	7/22/86	7.35	0.000	0.0000	0.01	
	7/24/86	7.25	0.000	0.0000	0.00	
	7/28/86	6.85	0.003	0.0000	0.00	4.4
	8/01/86	7.15	0.000	0.0000	0.00	
	8/06/86	9.30	0.000	0.0000	0.00	
	8/08/86	344.00	0.000	0.0000	0.03	
	8/11/86	7.35	0.000	0.0000	0.00	
	8/15/86	7.60	0.000	0.0000	0.00	
	8/18/86	7.45	0.000	0.0000	0.00	
	8/20/86	7.70	0.000	0.0004	0.00	
	8/27/86		0.000	0.0000	0.00	
	8/28/86	7.95	0.000	0.0000	0.00	
	9/03/86	7.60	0.000	0.0000	0.12	
	9/05/86	7.55	0.004	0.0000	0.04	
	9/09/86	7.00			0.03	4.0
	9/11/86	8.90	0.000	0.0000	0.00	
	9/16/86	7.15			0.01	
	9/18/86	8.05	0.000	0.0000	0.00	12.4
	9/22/86	7.90	0.000	0.0000	0.01	
	9/26/86	8.30	0.000	0.0000	0.00	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
3 220	10/03/86	9.75	0.000	0.0000	0.00	
	10/06/86	8.20	0.000	0.0000	0.00	
	10/09/86	7.60	0.000	0.0000	0.00	
	10/15/86	7.75	0.004	0.0000	0.00	3.6
	10/17/86	7.90				
	10/24/86	7.85	0.000	0.0000	0.01	
	10/28/86	7.85	0.000	0.0000	0.00	4.3
	10/30/86	7.60	0.000	0.0000	0.00	
	11/04/86	7.30	0.000	0.0000	0.00	
	11/06/86	7.50	0.000	0.0000	0.00	
	11/12/86	7.20	0.000	0.0000	0.00	
	11/14/86	7.10	0.000	0.0000	0.00	
	11/20/86	8.15	0.000	0.0000	0.00	
	11/21/86	7.50	0.000	0.0000	0.00	
	11/25/86	7.60	0.000	0.0000	0.00	
	11/28/86	6.90	0.000	0.0000	0.00	
	12/04/86		0.000	0.0000	0.00	
	12/05/86		0.034	0.0000	0.00	2.6
	12/10/86		0.000	0.0000	0.00	
	12/11/86		0.000	0.0000	0.00	
	12/31/86		0.000	0.0000	0.01	
	1/06/87				0.00	
	1/07/87		0.000	0.0000	0.00	
	1/22/87		0.000	0.0000		142.0
	1/23/87		0.000	0.0000	0.00	141.0
	1/28/87		0.000	0.0000	0.00	146.0
	1/30/87		0.000	0.0000	0.00	129.0
	2/04/87		0.000	0.0000	0.00	
	2/06/87		0.000	0.0000	0.00	144.0
	2/12/87		0.000	0.0000	0.00	142.0
	2/23/87		0.000	0.0000	0.00	129.0
	2/24/87		0.000	0.0000	0.00	133.0
	3/04/87		0.000	0.0000	0.01	125.0
	3/17/87	9.35	0.000	0.0000	0.00	22.8
	3/31/87		0.000	0.0000	0.00	165.0
AVG. LOAD (kg/day)		325.193	0.019	0.0003	0.0001	469.9
AVG. PT. SOURCE CONC'N.		15.402	0.001	0.0000	0.0049	85.3
620	5/15/86	736.00	0.000	0.0002	0.13	113.0
	5/20/86	759.00	0.000	0.0004	0.03	32.9

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
3 620	5/22/86	741.00	0.000	0.0005	0.02	14.4
	5/27/86	786.00	0.000	0.0000	0.00	16.6
	5/29/86	832.00	0.000	0.0000	0.03	14.5
	6/03/86	779.00	0.000	0.0003	0.01	
	6/05/86	643.00	0.000	0.0000	0.01	
	6/10/86	601.00	0.000	0.0000	0.02	
	6/12/86	548.00	0.000	0.0000	0.02	
	6/17/86	721.00	0.000	0.0000	0.01	
	6/20/86	675.00	0.000	0.0000	0.04	
	6/25/86	519.00	0.004	0.0000	0.03	
	6/27/86	420.00	0.009	0.0003	0.06	
	7/03/86	409.00	0.004	0.0000	0.01	
	7/04/86	401.00	0.000	0.0000	0.03	
	7/07/86	477.00	0.000	0.0000	0.03	
	7/10/86	471.00	0.004	0.0003	0.03	
	7/15/86	418.00	0.000	0.0000	0.02	
	7/17/86	423.00				
	7/22/86	257.00	0.000	0.0000	0.01	
	7/24/86	259.00	0.000	0.0000	0.01	
	7/28/86	337.00	0.000	0.0000	0.02	
	8/01/86	408.00	0.000	0.0000	0.02	
	8/06/86	344.00	0.000	0.0000	0.03	
	8/08/86	60.00	0.000	0.0000	0.01	
	8/11/86	422.00	0.000	0.0000	0.07	
	8/15/86	309.00	0.000	0.0000	0.02	
	8/18/86	317.00	0.000	0.0000	0.02	
	8/20/86	313.00	0.000	0.0000	0.03	
	8/27/86		0.000	0.0003	0.05	
	8/28/86	388.00	0.000	0.0000	0.04	
	9/03/86	385.00	0.000	0.0010	0.00	
	9/05/86	419.00	0.003	0.0020	0.07	
	9/09/86	373.00			0.06	
	9/11/86	427.00	0.000	0.0016	0.02	
	9/16/86	361.00	0.000	0.0005	0.05	
	9/18/86	387.00	0.000	0.0006	0.04	
	9/22/86	380.00	0.017	0.0015	0.07	
	9/26/86	513.00	0.006	0.0008	0.03	
	10/03/86	591.00	0.012	0.0003	0.08	
	10/06/86	511.00	0.004	0.0004	0.02	
	10/09/86	449.00	0.005	0.0007	0.01	
	10/15/86	554.00	0.016	0.0010	0.00	
	10/17/86	560.00	0.024	0.0009	0.02	
	10/24/86	582.00	0.013	0.0008	0.02	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
3 620	10/28/86	425.00	0.015	0.0010	0.02	
	10/30/86	401.00	0.021	0.0010	0.02	
	11/04/86	479.00	0.018	0.0010	0.03	
	11/06/86	433.00	0.024	0.0008	0.02	
	11/12/86	688.00	0.028	0.0008	0.04	
	11/14/86	730.00	0.034	0.0008	0.03	
	11/20/86	517.00	0.000	0.0000	0.01	
	11/21/86	448.00	0.000	0.0000	0.02	
	11/25/86	388.00	0.030	0.0006	0.01	
	11/28/86	482.00	0.033	0.0005	0.05	
	12/04/86		0.024	0.0004	0.06	
	12/05/86		0.034	0.0000	0.04	
	12/10/86		0.000	0.0000	0.01	
	12/11/86				0.06	
	12/31/86		0.008	0.0000	0.01	
	1/06/87				0.02	
	1/07/87		0.010	0.0000	0.01	
	1/22/87		0.009	0.0000	0.01	2240.0
	1/23/87		0.005	0.0000	0.01	
	1/28/87		0.012	0.0000	0.01	1810.0
	1/30/87		0.009	0.0000	0.00	1760.0
	2/04/87		0.009	0.0000	0.01	1540.0
	2/06/87				0.00	
	2/12/87	498.00	0.011	0.0003	0.01	28.6
	2/23/87	465.00	0.000	0.0000	0.06	97.8
	2/24/87		0.000	0.0000	0.03	40.9
	3/04/87		0.005	0.0000	0.01	26.2
	3/17/87		0.011	0.0003	0.03	2660.0
	3/31/87	590.00	0.000	0.0000	0.01	37.2
AVG. LOAD (kg/day)		3828.74	0.063	0.0030	0.0003	1411.9
AVG. PT. SOURCE CONC'N.		487.877	0.007	0.0003	0.0274	695.5
15 7	5/15/86	129.00	0.000	0.0000	0.05	14.8
	5/20/86	114.50	0.004	0.0004	0.01	16.6
	5/22/86	81.00	0.000	0.0002	0.02	8.0
	5/27/86	111.00	0.000	0.0000	0.00	12.7
	5/29/86	71.50	0.000	0.0000	0.01	3.8
	6/03/86	98.50	0.000	0.0000	0.00	
	6/05/86	120.50	0.000	0.0000	0.00	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
15 7	6/10/86	144.00	0.000	0.0000	0.00	
	6/12/86	45.70	0.009	0.0200	0.08	298.0
	6/17/86	215.00	0.000	0.0000	0.01	15.5
	6/20/86	95.00	0.000	0.0000	0.01	6.9
	6/25/86	44.30	0.000	0.0000	0.01	7.3
	6/27/86	44.70	0.000	0.0000	0.00	8.6
	7/03/86	38.20	0.000	0.0000	0.01	10.5
	7/04/86	57.00	0.000	0.0000	0.01	8.0
	7/07/86	60.00	0.000	0.0000	0.01	7.4
	7/10/86	53.50	0.005	0.0002	0.00	10.7
	7/15/86	61.50	0.024	0.0000	0.01	7.4
	7/17/86	47.10	0.000	0.0002	0.00	6.1
	7/22/86	37.10	0.000	0.0000	0.01	3.8
	7/24/86	43.90	0.000	0.0000	0.00	5.0
	7/28/86	43.35	0.000	0.0003	0.00	4.4
	8/01/86	47.30	0.000	0.0000	0.01	6.9
	8/06/86	64.50	0.000	0.0000	0.00	4.2
	8/08/86	7.20	0.000	0.0000	0.00	3.5
	8/11/86	121.00	0.000	0.0000	0.04	13.9
	8/15/86	57.50	0.000	0.0000	0.01	2.6
	8/18/86	42.10	0.000	0.0000	0.00	4.1
	8/20/86	71.00	0.000	0.0002	0.01	2.6
	8/27/86	6.75	0.000	0.0003	0.00	13.5
	8/28/86	68.00	0.000	0.0000	0.01	16.8
	9/03/86	43.70	0.000	0.0000	0.03	4.5
	9/05/86	47.50			0.04	4.4
	9/09/86	45.20			0.04	4.3
	9/11/86	93.50	0.000	0.0000	0.02	24.7
	9/16/86	66.00	0.000	0.0003	0.02	25.3
	9/18/86	61.00	0.000	0.0000	0.01	15.4
	9/22/86	39.60	0.029	0.0000	0.11	490.0
	9/26/86	86.50	0.003	0.0002	0.02	12.2
	10/03/86	109.00	0.004	0.0000	0.02	17.0
	10/06/86	77.50	0.000	0.0000	0.02	17.6
	10/09/86	68.50	0.000	0.0000	0.00	18.9
	10/15/86	72.50	0.000	0.0000	0.00	9.0
	10/17/86		0.004	0.0000		7.4
	10/24/86	64.50	0.000	0.0000	0.01	4.3
	10/28/86	76.00	0.000	0.0000	0.01	6.9
	10/30/86	50.00	0.003	0.0000	0.01	11.5
	11/04/86	59.50	0.000	0.0000	0.00	8.6
	11/06/86	48.20	0.000	0.0000	0.00	12.9
	11/12/86	83.00	0.000	0.0000	0.02	7.1

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
15 7	11/14/86	85.00	0.003	0.0000	0.01	4.6
	11/20/86	104.00	0.005	0.0000	0.01	13.9
	11/21/86	75.00	0.006	0.0000	0.01	21.2
	11/25/86	57.50	0.000	0.0000	0.00	6.4
	11/28/86	82.50	0.006	0.0000	0.00	11.8
	12/04/86		0.019	0.0000	0.00	11.1
	12/05/86		0.000	0.0000	0.00	6.1
	12/10/86		0.019	0.0003	0.04	36.7
	12/11/86		0.004	0.0000	0.21	8.1
	12/31/86		0.041	0.0008	0.04	37.5
	1/06/87				0.01	3.6
	1/07/87		0.000	0.0000	0.00	5.3
	1/22/87		0.000	0.0000	0.00	
	1/23/87		0.000	0.0000	0.01	
	1/28/87		0.000	0.0000	0.01	4.9
	1/30/87		0.000	0.0000	0.00	7.6
	2/04/87		0.000	0.0000	0.00	
	2/06/87				0.00	6.9
	2/23/87		0.000	0.0000	0.00	25.8
	2/24/87		0.000	0.0000	0.00	12.7
	3/04/87		0.003	0.0000	0.01	15.3
	3/17/87	98.50	0.003	0.0000	0.01	27.6
	3/31/87		0.000	0.0000	0.01	48.1
AVG. LOAD (kg/day)		7817.88	0.385	0.0465	0.0022	3060.5
AVG. PT. SOURCE CONC'N.		71.562	0.003	0.0003	0.0151	23.0
91 220	5/15/86	125.50	0.000	0.0000	0.04	
	5/20/86	216.50	0.000	0.0000	0.00	
	5/22/86	99.50	0.000	0.0000	0.02	
	5/27/86	108.50	0.000	0.0000	0.01	
	5/29/86	72.50	0.000	0.0000	0.00	5.4
	6/03/86	254.00	0.000	0.0000	0.01	
	6/05/86	128.50	0.000	0.0000	0.02	
	6/10/86	114.50	0.000	0.0000	0.00	
	6/12/86	110.00	0.000	0.0000	0.03	
	6/17/86	147.00	0.000	0.0000	0.02	
	6/20/86	74.50	0.000	0.0000	0.01	
	6/25/86	77.50	0.000	0.0000	0.02	
	6/27/86	53.50	0.000	0.0000	0.01	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 220	7/03/86	65.00	0.000	0.0000	0.02	
	7/04/86	148.00	0.000	0.0000	0.01	
	7/07/86	107.00	0.000	0.0000	0.01	
	7/10/86	57.00	0.000	0.0000	0.01	
	7/15/86	79.50	0.000	0.0000	0.01	
	7/17/86	50.00	0.003	0.0000	0.03	
	7/22/86	46.40	0.000	0.0000	0.01	
	7/24/86	81.00	0.000	0.0000	0.01	
	7/28/86	60.50	0.000	0.0000	0.02	
	8/01/86	86.50	0.000	0.0000	0.02	
	8/06/86	46.60	0.000	0.0000	0.01	
	8/08/86	56.50	0.000	0.0000	0.01	
	8/11/86	79.50	0.000	0.0000	0.00	
	8/15/86	32.60	0.000	0.0002	0.01	
	8/18/86	45.80	0.000	0.0000	0.01	
	8/20/86	114.00	0.000	0.0003	0.01	
	8/27/86		0.000	0.0000		
	8/28/86	81.00	0.000	0.0000	0.01	
	9/03/86	72.00	0.000	0.0000	0.04	
	9/05/86	89.00	0.003	0.0000	0.04	
	9/09/86	53.50			0.04	
	9/11/86	66.50	0.000	0.0000	0.01	
	9/16/86	96.50	0.000	0.0000	0.02	
	9/18/86	85.00	0.000	0.0000	0.01	
	9/22/86	151.00			0.15	
	9/26/86	86.00	0.000	0.0000	0.02	
	10/03/86	42.80	0.000	0.0000	0.02	
	10/06/86	76.50	0.000	0.0000	0.01	
	10/09/86	53.50	0.000	0.0003		
	10/15/86	53.50	0.003	0.0000	0.01	
	10/17/86	74.00	0.000	0.0000	0.02	
	10/24/86	28.70	0.000	0.0000	0.02	
	10/28/86	70.50	0.000	0.0000	0.01	
	10/30/86	43.80	0.000	0.0000	0.01	
	11/04/86	95.80	0.000	0.0000	0.00	
	11/06/86	90.00	0.000	0.0000	0.00	
	11/12/86	6.95	0.000	0.0000	0.00	
	11/14/86	6.50	0.000	0.0000	0.00	
	11/20/86	6.45	0.000	0.0000	0.00	
	11/21/86	6.90	0.000	0.0000	0.00	
	11/25/86	6.95	0.000	0.0000	0.00	
	11/28/86	6.75	0.000	0.0000	0.00	
	12/04/86		0.000	0.0000	0.00	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 220	12/05/86		0.009	0.0000	0.00	
	12/10/86		0.000	0.0000	0.00	
	12/11/86		0.000	0.0000	0.00	
	12/31/86				0.00	
	1/06/87				0.00	
	1/07/87	7.50	0.000	0.0000	0.00	5.0
	1/22/87		0.000	0.0000	0.00	
	1/23/87		0.000	0.0000	0.01	
	1/28/87		0.000	0.0000	0.00	147.0
	1/30/87		0.000	0.0000	0.00	131.0
	2/04/87		0.000	0.0000	0.00	144.0
	2/06/87		0.000	0.0000	0.00	76.8
	2/12/87				0.00	137.0
	2/23/87		0.000	0.0000	0.00	132.0
	2/24/87		0.000	0.0000	0.00	132.0
	3/04/87		0.000	0.0000	0.01	131.0
	3/17/87		0.000	0.0000	0.00	161.0
	3/31/87		0.000	0.0000	0.01	150.0
AVG. LOAD (kg/day)		3504.46	0.015	0.0007	0.0007	995.9
AVG. PT. SOURCE CONC'N.		76.282	0.000	0.0000	0.0119	112.7
320	5/15/86	6.20	0.000	0.0000	0.00	
	5/20/86	7.65	0.000	0.0000	0.00	
	5/22/86	8.20	0.000	0.0000	0.00	
	5/27/86	7.65	0.000	0.0000	0.00	
	5/29/86	7.50	0.005	0.0000	0.00	
	6/03/86	8.50	0.000	0.0000	0.00	
	6/05/86	8.15	0.000	0.0000	0.00	
	6/10/86	8.10	0.000	0.0000	0.00	
	6/12/86	7.95	0.000	0.0000	0.00	
	6/17/86	7.55	0.000	0.0000	0.00	
	6/20/86	7.70	0.000	0.0000	0.01	8.4
	6/25/86	7.45	0.000	0.0000	0.00	
	6/27/86	7.05	0.000	0.0000	0.00	
	7/03/86	7.45	0.000	0.0000	0.00	
	7/04/86	7.80	0.000	0.0000	0.00	
	7/07/86	7.60	0.000	0.0000	0.01	
	7/10/86	6.75	0.000	0.0000	0.00	
	7/15/86	7.30	0.000	0.0000	0.00	
	7/17/86	7.15	0.000	0.0000	0.04	

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 320	7/22/86	6.80	0.000	0.0000	0.00	
	7/24/86	6.80	0.000	0.0000	0.00	
	7/28/86	6.85	0.000	0.0000	0.00	2.9
	8/01/86	6.60	0.000	0.0000	0.00	
	8/06/86	7.00	0.000	0.0000	0.00	
	8/08/86	6.75	0.000	0.0000	0.00	
	8/11/86	7.15	0.000	0.0000	0.00	
	8/15/86	6.65	0.000	0.0000	0.00	
	8/18/86	6.60	0.000	0.0000	0.02	
	8/20/86	7.00	0.000	0.0003	0.00	
	8/27/86		0.000	0.0000	0.02	
	8/28/86	7.70	0.000	0.0000	0.00	
	9/03/86	7.40	0.000	0.0002	0.02	
	9/05/86	6.85	0.000	0.0000	0.04	
	9/09/86	6.50			0.04	
	9/11/86	6.70	0.000	0.0000	0.00	
	9/16/86	6.85	0.000	0.0000	0.00	
	9/18/86	7.10	0.000	0.0000	0.00	
	9/22/86	8.20	0.008	0.0000	0.02	
	9/26/86	7.95	0.003	0.0000	0.00	
	10/03/86	7.30	0.000	0.0000	0.00	
	10/06/86	6.95	0.000	0.0000	0.00	
	10/09/86	7.10	0.000	0.0000	0.00	
	10/15/86	6.90	0.006	0.0000	0.00	
	10/17/86	6.60	0.000	0.0000	0.00	
	10/24/86	6.20	0.000	0.0000	0.01	
	10/28/86	7.20	0.000	0.0000	0.00	
	10/30/86	6.60	0.000	0.0000	0.00	13.7
	11/04/86	6.60	0.000	0.0000	0.00	
	11/06/86	7.10	0.000	0.0000	0.00	
	11/12/86	6.80	0.000	0.0000	0.01	
	11/14/86	6.30	0.000	0.0000	0.00	
	11/20/86	6.40	0.000	0.0000	0.00	
	11/21/86	6.50	0.000	0.0000	0.00	
	11/25/86	6.75	0.000	0.0000	0.00	
	11/28/86	6.45	0.000	0.0000	0.00	
	12/04/86		0.000	0.0000	0.00	
	12/05/86		0.009	0.0000	0.00	2.5
	12/10/86		0.000	0.0000	0.00	2.6
	12/11/86		0.000	0.0000	0.01	1.9
	12/31/86		0.000	0.0000	0.00	0.9
	1/06/87				0.00	0.7

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 320	1/07/87	7.05	0.000	0.0000	0.01	4.4
	1/22/87		0.000	0.0000	0.00	
	1/23/87		0.000	0.0000	0.01	11.1
	1/28/87		0.000	0.0000	0.00	3.1
	1/30/87		0.000	0.0000	0.00	2.6
	2/04/87		0.000	0.0000	0.00	6.2
	2/06/87		0.000	0.0000	0.00	3.5
	2/12/87		0.000	0.0000	0.00	60.5
	2/23/87	7.25	0.000	0.0000	0.00	11.5
	2/24/87		0.000	0.0000	0.00	14.7
	3/04/87		0.000	0.0000	0.01	14.3
	3/17/87		0.000	0.0000	0.00	18.9
	3/31/87		0.000	0.0000	0.01	90.9
AVG. LOAD (kg/day)		323.056	0.023	0.0003	0.0002	197.9
AVG. PT. SOURCE CONC'N.		7.132	0.000	0.0000	0.0039	13.8
520	5/15/86	82.50	0.000	0.0000	0.38	2.3
	5/20/86	73.50	0.000	0.0003	0.35	14.7
	5/22/86	75.00	0.000	0.0000	0.21	6.5
	5/27/86	59.50	0.000	0.0000	0.08	3.0
	5/29/86	49.00	0.000		0.00	3.0
	6/03/86	49.50	0.000	0.0000	0.03	
	6/05/86	51.50	0.000	0.0000	0.09	
	6/10/86	97.50	0.000	0.0000	0.02	
	6/12/86	88.00	0.000	0.0000	0.18	11.9
	6/17/86	83.50			0.03	10.9
	6/20/86	12.40	0.000	0.0000	0.13	7.5
	6/25/86	54.50	0.004	0.0000		7.8
	6/27/86	45.60	0.000	0.0000	0.32	4.9
	7/03/86	34.10	0.000	0.0000	0.21	6.8
	7/04/86	16.90	0.000	0.0000	0.12	5.4
	7/07/86	41.60	0.000	0.0000	0.26	2.6
	7/10/86	46.00	0.005	0.0000	0.12	4.3
	7/15/86	50.50	0.000	0.0000	0.17	3.4
	7/17/86	45.90	0.003	0.0000	0.12	3.8
	7/22/86	26.30	0.000	0.0000	0.12	4.2
	7/24/86	58.00	0.000	0.0000	0.15	4.4
	7/28/86	46.80	0.000	0.0000	0.20	2.6
	8/01/86	44.30	0.000	0.0000	0.15	2.5
	8/06/86	45.00	0.000	0.0000	0.09	2.1

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 520	8/08/86	55.00	0.000	0.0000	0.22	2.1
	8/11/86	47.40	0.000	0.0000	0.12	2.6
	8/15/86	33.00	0.000	0.0000	0.08	2.2
	8/18/86	31.90	0.000	0.0000	0.16	5.9
	8/20/86	39.00	0.000	0.0003	0.25	8.0
	8/27/86		0.000	0.0000	0.12	20.6
	8/28/86	44.20	0.000	0.0000	0.06	2.9
	9/03/86	68.00	0.000	0.0000	0.19	2.6
	9/05/86	72.50	0.000	0.0000	0.13	3.5
	9/09/86	54.50			0.09	3.7
	9/11/86	51.50	0.000	0.0000	0.14	3.9
	9/16/86	49.50	0.000	0.0000	0.20	23.0
	9/18/86	46.10	0.000	0.0000	0.08	12.6
	9/22/86	49.00	0.011	0.0000	0.46	20.4
	9/26/86	64.00	0.000	0.0000	0.08	4.3
	10/03/86	63.00	0.000	0.0000	0.08	5.7
	10/06/86	87.00	0.000	0.0002	0.11	12.8
	10/09/86	60.00	0.000	0.0000	0.12	17.3
	10/15/86	65.00	0.005	0.0000	0.10	584.0
	10/17/86	70.00	0.000	0.0000	0.13	4.4
	10/24/86	74.00	0.000	0.0000	0.07	6.3
	10/28/86	76.00	0.000	0.0000	0.07	3.2
	10/30/86	127.00	0.000	0.0000	0.08	12.8
	11/04/86	11.10	0.000	0.0000	0.05	21.3
	11/06/86	76.80	0.000	0.0000	0.04	14.3
	11/12/86	61.50	0.000	0.0000	0.06	1.3
	11/14/86	63.50	0.000	0.0000	0.04	8.3
	11/20/86	64.00	0.003	0.0000	0.10	10.2
	11/21/86	78.00	0.000	0.0000	0.11	20.5
	11/25/86	75.50	0.003	0.0000	0.04	4.1
	11/28/86	83.50	0.014	0.0000	0.11	3.7
	12/04/86		0.000	0.0000	0.05	4.2
	12/05/86		0.010	0.0000	0.05	2.6
	12/10/86		0.000	0.0000	0.06	3.1
	12/11/86		0.003	0.0000	0.04	2.0
	12/31/86		0.003	0.0000	0.04	1.1
	1/07/87		0.009	0.0000	0.04	4.4
	1/22/87		0.004	0.0000	0.03	3.2
	1/23/87	38.70	0.000	0.0000	0.04	8.6
	1/28/87		0.000	0.0000	0.03	2.3
	1/30/87		0.000	0.0000	0.06	6.2
	2/04/87		0.000	0.0000	0.05	5.8

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 520	2/06/87		0.000	0.0000	0.04	3.8
	2/12/87	69.80	0.006	0.0000	0.05	49.5
	2/23/87	114.00	0.030	0.0000	0.05	11.0
	2/24/87		0.000	0.0000	0.03	8.7
	3/04/87		0.003	0.0000	0.34	16.1
	3/17/87	149.00	0.008	0.0000	0.00	18.7
	3/31/87		0.004	0.0000	0.10	79.7
AVG. LOAD (kg/day)		1530.84	0.047	0.0004	0.0035	526.9
AVG. PT. SOURCE CONC'N.		60.179	0.002	0.0000	0.1156	17.1
620	6/27/86	8.25	0.000	0.0000	0.00	5.0
	7/03/86	8.00	0.000	0.0000	0.02	7.5
	7/04/86	8.00	0.000	0.0000	0.01	5.7
	7/07/86	8.30	0.000	0.0000	0.02	3.0
	7/10/86	9.25	0.004	0.0000	0.01	4.3
	7/15/86	8.20	0.000	0.0000	0.02	2.8
	7/17/86	7.85	0.000	0.0000	0.01	2.4
	7/22/86	7.55	0.000	0.0000	0.01	6.0
	7/24/86	7.35	0.000	0.0000	0.04	2.3
	7/28/86	7.40	0.000	0.0000	0.01	1.9
	8/01/86	7.25	0.000	0.0000	0.02	2.0
	8/06/86	7.40	0.000	0.0000	0.02	2.4
	8/08/86	7.65			0.01	2.9
	8/11/86	7.30	0.000	0.0000	0.01	2.1
	8/15/86	7.45	0.005	0.0000	0.10	2.2
	8/18/86	7.35	0.000	0.0000		3.7
	8/20/86	7.75	0.000	0.0004	0.02	7.2
	8/27/86		0.000	0.0000	0.02	10.7
	8/28/86	7.40	0.000	0.0000	0.01	13.3
	9/03/86	8.00	0.000	0.0000	0.03	14.9
	9/05/86	7.40	0.000	0.0000	0.05	3.1
	9/09/86	6.95			0.06	4.1
	9/11/86	8.20	0.000	0.0000	0.08	3.6
	9/16/86	7.90			0.02	22.2
	9/18/86	7.65	0.000	0.0000	0.02	13.7
	9/22/86	11.30	0.008	0.0000	0.07	20.3
	9/26/86	8.90	0.000	0.0000	0.01	9.1
	10/03/86	9.65	0.000	0.0000	0.03	5.7
	10/06/86	7.75	0.000	0.0000	0.02	14.8
	10/09/86	7.65	0.000	0.0000	0.02	23.5

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 620	10/15/86	7.85	0.007	0.0000	0.16	2.9
	10/17/86	7.35	0.000	0.0000	0.02	5.3
	10/24/86	6.70	0.000	0.0000	0.03	6.1
	10/28/86	7.85			0.01	4.2
	10/30/86	7.20	0.000	0.0000	0.03	13.0
	11/04/86	7.85	0.000	0.0000	0.01	15.7
	11/06/86	12.10	0.000	0.0000	0.00	15.8
	11/12/86	6.85	0.000	0.0000	0.04	1.7
	11/14/86	6.60	0.000	0.0000	0.01	3.3
	11/20/86	7.55	0.000	0.0000	0.01	11.6
	11/21/86	14.70	0.000	0.0000	0.03	21.6
	11/25/86	11.50	0.000	0.0000	0.04	48.7
	11/28/86	7.50	0.000	0.0000	0.00	3.3
	12/04/86		0.000	0.0000	0.01	4.7
	12/05/86		0.008	0.0000	0.00	3.1
	12/10/86		0.000	0.0000	0.00	2.6
	12/11/86				0.05	2.5
	12/31/86				0.01	0.7
	1/06/87				0.02	2.0
	1/07/87		0.000	0.0000	0.01	4.3
	1/22/87		0.000	0.0000	0.15	
	1/23/87		0.000	0.0000	0.01	
	1/28/87		0.000	0.0000	0.06	2.6
	1/30/87		0.000	0.0000	0.04	2.2
	2/04/87		0.000	0.0000	0.21	
	2/06/87				0.03	3.9
	2/12/87		0.000	0.0000	0.01	55.0
	2/23/87		0.000	0.0000	0.05	9.0
	2/24/87		0.000	0.0000	0.02	9.5
	3/04/87		0.000	0.0000	0.02	15.7
	3/17/87		0.005	0.0000	0.92	22.0
	3/31/87		0.000	0.0000	0.02	78.9
AVG. LOAD (kg/day)		326.408	0.036	0.0004	0.0028	581.3
AVG. PT. SOURCE CONC'N.		8.158	0.001	0.0000	0.0459	10.1
720	5/15/86	6.45	0.000	0.0000	0.02	3.2
	5/20/86	11.00	0.000	0.0003	0.02	15.8
	5/22/86	10.20	0.000	0.0000	0.04	8.0
	5/27/86	10.00	0.000	0.0000	0.03	4.0
	5/29/86	9.50	0.000	0.0000	0.02	3.0

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 720	6/03/86	10.80	0.000	0.0000	0.08	
	6/05/86	11.40	0.000	0.0000	0.14	
	6/10/86	10.20	0.000	0.0000	0.00	
	6/12/86	10.20			0.04	14.9
	6/17/86	10.20	0.000	0.0000	0.02	9.6
	6/20/86	8.75	0.000	0.0000	0.01	8.0
	6/25/86	8.05	0.000	0.0000	0.05	7.9
	6/27/86	9.15	0.000	0.0000	0.02	5.1
	7/03/86	10.30	0.000	0.0000	0.03	7.6
	7/04/86	9.25			0.02	6.5
	7/07/86	9.90	0.000	0.0000	0.06	3.3
	7/10/86	7.85	0.000	0.0000	0.04	3.6
	7/15/86	11.80	0.000	0.0000	0.01	3.4
	7/17/86	10.80	0.000	0.0000	0.02	4.9
	7/22/86	10.10	0.000	0.0000	0.02	4.6
	7/24/86	8.95	0.000	0.0000	0.04	3.2
	7/28/86	8.70	0.000	0.0000	0.01	2.5
	8/01/86	7.90	0.000	0.0000	0.02	3.2
	8/06/86	7.50	0.000	0.0000	0.02	4.1
	8/08/86	7.85	0.000	0.0000	0.01	2.6
	8/11/86	8.85	0.000	0.0000	0.03	2.7
	8/15/86	8.35	0.004	0.0000	0.02	1.9
	8/18/86	8.45	0.000	0.0000	0.01	5.8
	8/20/86	8.75	0.000	0.0003	0.18	3.5
	8/27/86		0.000	0.0000	0.02	22.0
	8/28/86	9.05	0.012	0.0000	0.01	15.1
	9/03/86	8.55	0.000	0.0000	0.02	5.3
	9/05/86	8.15	0.000	0.0000	0.05	3.2
	9/09/86	7.75			0.05	3.5
	9/11/86	8.45	0.000	0.0000	0.10	4.7
	9/16/86	8.10	0.000	0.0000	0.01	22.1
	9/18/86	8.05	0.000	0.0000	0.01	16.5
	9/22/86	9.90	0.008	0.0000	0.11	25.7
	9/26/86	9.40	0.000	0.0000	0.04	5.3
	10/03/86	9.70	0.000	0.0000	0.06	5.9
	10/06/86	7.85	0.000	0.0000	0.04	15.8
	10/09/86	7.95	0.000	0.0000	0.03	19.3
	10/15/86	8.40	0.008	0.0000	0.01	4.1
	10/17/86	7.85	0.000	0.0000	0.02	4.9
	10/24/86	7.70	0.000	0.0000	0.05	6.5
	10/28/86	8.50	0.000	0.0000	0.02	4.5
	10/30/86	7.80	0.000	0.0000	0.02	15.6

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 720	11/04/86	7.70	0.000	0.0000	0.01	12.0
	11/06/86	7.90	0.000	0.0000	0.02	16.7
	11/12/86	7.15	0.000	0.0000	0.01	2.9
	11/14/86	7.15	0.000	0.0000	0.01	4.7
	11/20/86	7.85	0.000	0.0000	0.01	11.1
	11/21/86	8.80	0.000	0.0000	0.01	20.5
	11/25/86	7.70	0.000	0.0000	0.53	4.1
	11/28/86	9.70	0.000	0.0000	0.01	7.1
	12/04/86		0.000	0.0000	0.02	3.0
	12/05/86		0.005	0.0000	0.00	3.1
	12/10/86		0.000	0.0000	0.00	3.6
	12/11/86				0.01	2.7
	12/31/86		0.000	0.0000	0.01	1.4
	1/06/87				0.01	2.0
	1/07/87		0.000	0.0000	0.00	4.2
	1/22/87		0.000	0.0000	0.00	9.0
	1/23/87		0.000	0.0000	0.01	
	1/28/87		0.000	0.0000	0.01	3.0
	1/30/87		0.000	0.0000	0.03	2.7
	2/04/87		0.000	0.0000	0.02	6.2
	2/06/87		0.000	0.0000	0.00	4.8
	2/12/87		0.000	0.0000	0.00	46.7
	2/23/87		0.000	0.0000	0.01	13.7
	2/24/87		0.000	0.0000	0.00	10.3
	3/04/87		0.000	0.0000	0.01	15.3
	3/17/87		0.005	0.0000	0.10	56.2
	3/31/87		0.000	0.0000	0.02	81.0
AVG. LOAD (kg/day)		505.835	0.044	0.0008	0.0027	732.8
AVG. PT. SOURCE CONC'N.		8.857	0.001	0.0000	0.0347	9.9
920	5/15/86	986.00	0.000	0.0000	0.00	2.8
	5/20/86	859.00	0.000	0.0000	0.01	22.0
	5/22/86	922.00	0.000	0.0000	0.02	6.8
	5/27/86	2050.00			0.01	4.3
	5/29/86	1769.00	0.000	0.0000	0.00	5.8
	6/03/86	257.00	0.000	0.0000	0.00	
	6/05/86	16.70	0.000	0.0000	0.00	
	6/10/86	925.00	0.000	0.0000	0.00	
	6/12/86	992.00	0.006	0.0000	0.00	21.5
	6/17/86	807.00	0.000	0.0000	0.07	11.3

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 920	6/20/86	375.00	0.000	0.0000	0.01	8.9
	6/25/86	965.00	0.000	0.0000	0.00	8.5
	6/27/86	808.00	0.000	0.0000	0.01	5.5
	7/03/86	577.00	0.000	0.0003	0.00	9.4
	7/04/86	860.00	0.000	0.0000	0.14	7.5
	7/07/86	934.00	0.000	0.0000	0.00	3.0
	7/10/86	738.00	0.000	0.0000	0.02	4.6
	7/15/86	570.00	0.000	0.0000	0.03	4.1
	7/17/86	321.00	0.000	0.0000	0.02	3.5
	7/22/86	875.00	0.000	0.0000	0.01	14.9
	7/24/86	939.00	0.000	0.0000	0.00	5.0
	7/28/86	266.00	0.000	0.0000	0.00	2.7
	8/01/86	833.00	0.000	0.0000	0.01	4.5
	8/06/86	827.00	0.000	0.0000	0.00	2.5
	8/08/86	888.00	0.000	0.0000	0.00	3.8
	8/11/86	849.00	0.000	0.0000	0.00	3.8
	8/15/86	842.00	0.000	0.0000	0.01	4.2
	8/18/86	831.00	0.000	0.0000	0.01	7.9
	8/20/86	911.00	0.000	0.0000	0.01	9.6
	8/27/86		0.000	0.0000	0.00	20.0
	8/28/86	888.00	0.000	0.0000	0.02	14.2
	9/03/86	901.00	0.000	0.0000	0.03	2.8
	9/05/86	670.00			0.04	3.0
	9/09/86	809.00			0.03	3.7
	9/11/86	816.00	0.000	0.0000	0.01	4.1
	9/16/86	829.00	0.000	0.0000	0.01	23.7
	9/18/86	860.00	0.000	0.0000	0.01	12.4
	9/22/86	730.00	0.010	0.0000	0.02	14.8
	9/26/86	631.00	0.000	0.0000	0.00	
	10/03/86	701.00	0.000	0.0000	0.04	5.7
	10/06/86	794.00	0.000	0.0000	0.01	17.8
	10/09/86	775.00	0.000	0.0000	0.00	24.2
	10/15/86	187.00	0.004	0.0000	0.00	2.8
	10/17/86	851.00	0.000	0.0000		6.7
	10/24/86	826.00	0.000	0.0000	0.02	6.9
	10/28/86	1640.00			0.00	5.1
	10/30/86	749.00	0.000	0.0000	0.01	15.6
	11/04/86	395.00	0.000	0.0000	0.01	11.3
	11/06/86	1440.00			0.00	12.9
	11/12/86	902.00	0.000	0.0000	0.01	3.7
	11/14/86	1300.00	0.000	0.0000	0.02	9.4
	11/20/86	1140.00	0.000	0.0000	0.01	11.9
	11/21/86		0.006	0.0000	0.00	26.0

OUTFALL	DATE	CHLORIDE (mg/L)	LEAD (mg/L)	CADMIUM (mg/L)	MERCURY (ug/L)	SUSPENDED SOLIDS (mg/L)
91 920	11/25/86	64.50	0.000	0.0000	0.00	3.3
	11/28/86	932.00	0.003	0.0000	0.00	5.3
	12/04/86		0.000	0.0000	0.00	3.1
	12/05/86		0.006	0.0000	0.11	1.8
	12/10/86		0.004	0.0000	0.02	3.2
	12/11/86		0.000	0.0000	0.00	3.1
	12/31/86		0.000	0.0000	0.00	2.1
	1/06/87				0.00	1.8
	1/07/87		0.000	0.0000	0.00	5.0
	1/22/87		0.000	0.0000	0.02	4.2
	1/23/87		0.000	0.0000	0.01	12.9
	1/28/87		0.000	0.0000	0.03	2.9
	1/30/87		0.000	0.0000	0.00	3.8
	2/04/87		0.000	0.0000	0.02	7.2
	2/06/87		0.000	0.0000	0.25	4.9
	2/12/87		0.009	0.0000	0.00	55.1
	2/23/87		0.000	0.0000	0.00	13.0
	2/24/87		0.000	0.0000	0.00	12.0
	3/04/87		0.004	0.0000	0.00	21.5
	3/17/87		0.005	0.0000	0.01	22.9
	3/31/87		0.006	0.0000	0.01	80.8
AVG. LOAD (kg/day)		262509	0.349	0.0015	0.0064	4011.0
AVG. PT. SOURCE CONC'N.		823.079	0.001	0.0000	0.0160	10.2

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 220	5/15/86	0	0	0	0	0	0	0	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	0	0	0	0	0	0
	5/29/86								
	6/03/86	0	0	0	0	0	0	0	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	0	0	0	0	0	0
	6/17/86	0	0	0	0	0	0	0	0
	6/20/86	0	0	0	0	0	0	0	0
	6/25/86	0	0	0	0	0	0	0	0
	6/27/86	0	0	0	0	0	0	2	0
	7/03/86								
	7/04/86	0	0	0	0	0	0	0	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	0	0	0	0	0	0
	7/17/86	0	0	0	0	0	0	0	0
	7/22/86	0	0	0	0	0	0	0	0
	7/24/86	0	0	0	0	0	0	4	0
	7/28/86	0	0	0	0	0	0	0	0
	8/01/86	0	0	0	0	0	0	0	0
	8/06/86	0	0	0	0	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0
	8/20/86	0	0	3	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 220	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86								
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	0	0	0
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	0	0	0	0	0	0
	10/06/86								
	10/09/86								
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86	0	0	0	0	0	0	0	0
	10/24/86	0	0	0	0	0	0	0	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	1	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	0	0
	12/04/86	0	0	0	0	0	0	0	0
	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	0	0	0	0	0	0
	12/11/86	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 220	12/31/86	0	0	0	0	0	0	0	0
	1/06/87	0	0	0	0	0	0	0	0
	1/07/87	0	10	107	10	9	0		6
	1/22/87	0	0	0	0	0	0	0	21
	1/23/87	0	0	0	0	0	0	0	0
	1/28/87	0	0	0	0	0	0	0	0
	1/30/87	0	0	0	0	0	0	0	0
	2/04/87	0	0	0	0	0	0	0	0
	2/06/87	0	0	0	0	0	0	0	0
	2/12/87	0	0	0	0	0	0	0	0
	2/23/87	0	0	0	0	0	0	0	0
	2/24/87	0	0	2	1	0	0	1	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	0	0	0	2	0	0	0	0
	3/31/87	0	0	0	0	0	0	0	0
AVG. LOAD (kg/day)		0.000	0.003	0.037	0.004	0.003	0.000	0.003	0.009
AVG. PT. SOURCE CONC'N.		0.00	0.15	1.67	0.19	0.13	0.00	0.12	0.40
620	5/15/86	0	0	0	0	0	0	0	0
	5/20/86								
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	0	0	0	0	0	0
	5/29/86	0	0	0	0	0	0	0	0
	6/03/86	0	0	0	0	0	0	24	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 620	6/12/86	0	0	0	0	0	0	0	0
	6/17/86	0	0	0	0	0	0	0	0
	6/20/86	0	0	0	0	0	0	0	0
	6/25/86	0	0	0	0	0	0	0	0
	6/27/86								
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	0	0	0	0	0	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	0	1	0	0	0	0
	7/17/86								
	7/22/86	0	2	2	0	0	0	0	0
	7/24/86	0	0	0	1	0	9	24	11
	7/28/86								
	8/01/86	0	0	17	2	0	0	6	0
	8/06/86	0	0	0	0	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	22	0
	8/20/86	0	0	30	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86								
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86								
	9/11/86	0	0	0	14	0	0	0	0
	9/16/86	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86								

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 620	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	0	0	0	0	0	0
	10/06/86	0	0	0	0	0	0	0	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86	0	0	0	0	0	0	0	0
	10/24/86	0	0	0	0	0	0	0	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	0	0
	12/04/86	0	0	0	0	0	0	0	0
	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	0	1	0	0	0	0
	12/11/86	0	0	0	0	0	0	0	0
	12/31/86	0	0	0	0	0	0	0	0
	1/06/87	0	0	0	0	0	0	0	0
	1/07/87	0	0	0	0	0	0	0	0
	1/22/87								
	1/23/87	0	0	0	0	0	0	0	3
	1/28/87	0	0	0	0	0	0	0	52
	1/30/87	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
3 620	2/04/87	0	0	0	0	0	0	0	0
	2/06/87	0	0	0	0	0	0	0	0
	2/12/87	0	0	0	0	0	0	0	0
	2/23/87	0	0	0	0	0	0	0	0
	2/24/87	0	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	0	0	0	0	0	0	0	0
	3/31/87	0	0	0	0	0	0	0	0
AVG. LOAD (kg/day)		0.000	0.000	0.005	0.003	0.000	0.001	0.010	0.009
AVG. PT. SOURCE CONC'N.		0.00	0.03	0.77	0.30	0.00	0.14	1.19	1.03
15 7	5/15/86	0	0	0	5	0	0	0	0
	5/20/86	0	0	0	2	0	0	0	0
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	0	0	0	0	0	0
	5/29/86	0	0	0	0	0	0	0	0
	6/03/86	0	0	0	0	0	0	0	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	0	0	0	0	0	0
	6/17/86	0	0	0	0	0	0	0	0
	6/20/86	0	0	9	0	0	0	0	0
	6/25/86	0	0	0	0	0	0	0	0
	6/27/86	0	0	0	0	0	0	0	0
	7/03/86	0	0	0	2	0	0	0	0
	7/04/86	0	0	0	0	0	0	0	0
	7/07/86	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
15 7	7/10/86	0	0	0	0	0	0	0	0
	7/15/86	0	0	0	0	0	0	0	0
	7/17/86	0	0	0	0	0	0	0	0
	7/22/86	0	0	0	0	0	0	0	0
	7/24/86								
	7/28/86	0	0	0	0	0	0	0	0
	8/01/86	0	0	0	0	0	0	0	0
	8/06/86	0	0	0	0	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	2	0
	8/15/86								
	8/18/86	0	0	0	0	0	0	15	0
	8/20/86	0	0	0	1	0	0	0	0
	8/27/86	0	0	0	2	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	27	4	3	0	0	11	0
	9/09/86								
	9/11/86	0	0	0	3	0	0	24	0
	9/16/86	0	0	0	0	0	0	1	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	0	7	0
	9/26/86	0	0	0	1	0	0	0	0
	10/03/86	0	0	0	0	0	0	0	0
	10/06/86								
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86	0	0	0	0	0	0	0	0
	10/24/86								
	10/28/86	0	0	0	0	0	0		0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
15 7	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	1	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	4	0
	12/04/86	0	0	0	1	0	0	2	0
	12/05/86								
	12/10/86	0	0	0	0	0	0	0	0
	12/11/86								
	12/31/86	0	0	0	0	0	0	0	0
	1/06/87								
	1/07/87	0	0	0	0	0	0	0	0
	1/22/87	0	0	0	0	0	0	0	0
	1/23/87								
	1/28/87	0	0	0	0	0	0	0	0
	1/30/87	0	0	0	0	0	0	0	0
	2/04/87	0	0	0	0	0	0	0	0
	2/06/87	0	0	0	0	0	0	0	0
	2/23/87	0	2	3	3	0	0	0	1
	2/24/87	0	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	0	0	0	0	0	0	0	0
	3/31/87	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY, 1986 - MARCH, 1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
AVG. LOAD (kg/day)		0.000	0.058	0.032	0.048	0.000	0.000	0.131	0.002
AVG. PT. SOURCE CONC'N.		0.00	0.46	0.25	0.38	0.00	0.00	1.06	0.02
91 220	5/15/86	0	18	47	10	0	0	35	7
	5/20/86	0	131	241	0	0	5	0	18
	5/22/86	0	136	204	0	3	3	0	17
	5/27/86	0	122	203	0	0	4	0	18
	5/29/86								
	6/03/86	0	81	80	21	9	0	78	14
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	295	0	0	0	49	0	50
	6/17/86	0	127	10	68	0	0	327	30
	6/20/86	0	111	3	4	0	0	41	64
	6/25/86	0	122	106	45	0	0	167	21
	6/27/86	0	82	3	27	6	0	139	19
	7/03/86								
	7/04/86	0	119	190	72	0	8	385	17
	7/07/86	0	398	0	0	25	22	0	54
	7/10/86								
	7/15/86	0	115	157	36	3	1	42	51
	7/17/86	0	106	170	100	0	18	449	9
	7/22/86	0	32	101	21	5	1	60	21
	7/24/86	0	0	0	0	0	0	0	0
	7/28/86								
	8/01/86	0	85	140	36	3	2	140	13
	8/06/86	0	63		34	0	0	102	22
	8/08/86	0	120	0	38	5	3	127	26

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI CHLOROETHANE
91 220	8/11/86	0	60	125	20	5	0	74	2
	8/15/86								
	8/18/86	0	107	110	0	0	0	136	15
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	130	119	0	6	0	181	16
	8/28/86	0	104	109	17	0	0	92	0
	9/03/86	0	60	72	18	0	13	80	11
	9/05/86	0	0		18	2	0	0	9
	9/09/86								
	9/11/86	0	102		0	5	0	0	15
	9/16/86	0	154	88	0	3	9	257	11
	9/18/86	0	61	69	23	0	2	52	8
	9/22/86	0	115	10	51	13	3	127	16
	9/26/86	0	77	103	47	7	1	93	12
	10/03/86	0	69	161	0	12	3	92	18
	10/06/86	0	69	80	109	0	5	81	7
	10/09/86								
	10/15/86	0	56	83	22	2	2	58	5
	10/17/86	0	47	71	33	7	0	64	8
	10/24/86	0	179	132	76	0	143	256	12
	10/28/86	0	79	102	46	0	46	91	9
	10/30/86	0	86	169	28	159	18	169	29
	11/04/86	0	114	85	32	0	2	179	11
	11/06/86	0	396	82	35	0	3	177	127
	11/12/86	0	52		0	4	2	40	4
	11/14/86	0	16	53	209	0	0	31	3
	11/20/86	0	25	64	0	4	0	16	4
	11/21/86	0	0	153	33	7	0	30	10
	11/25/86	0	64	102	19	12	0	38	9
	11/28/86	0	15	140	23	11	0	33	9

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 220	12/04/86								
	12/05/86	0	38	215	23	15	0	44	15
	12/10/86	0	44	23	31	22	2	43	22
	12/11/86	0	47	209	30	17	2	47	18
	12/31/86	0	21	17	19	19	0	18	12
	1/06/87	0	17	218	539	0	0	14	11
	1/07/87	0	0	5	0	0	0	0	0
	1/22/87								
	1/23/87								
	1/28/87	0	13	322	10	0	2	8	8
	1/30/87	0	16	402	11	20	2	9	10
	2/04/87	0	14	171	13	12	1	15	8
	2/06/87	0	15	386	10	16	2	12	11
	2/12/87	0	16	261	10	8	2	9	9
	2/23/87	0	7	95	0	9	0	7	5
	2/24/87	0	8	126	0	12	0	13	6
	3/04/87	0	8	140	12	9	0	8	6
	3/17/87								
	3/31/87								
AVG. LOAD (kg/day)		0.000	3.951	5.278	1.701	0.398	0.329	3.941	0.819
AVG. PT. SOURCE CONC'N.		0.00	78.10	114.51	34.08	7.82	6.25	78.46	16.26
320	5/15/86	0	0	0	0	0	0	1	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	1	0	1	0	0	1	0
	5/27/86	0	3	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY, 1986 - MARCH, 1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 320	5/29/86								
	6/03/86	0	0	0	0	0	0	2	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	0	0	0	0	0	0
	6/17/86	0	0	0	4	0	0	2	0
	6/20/86	0	0	9	0	0	0	4	0
	6/25/86	0	0	0	0	0	0	0	0
	6/27/86	0	0	0	0	0	0	0	0
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	0	0	0	0	2	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	3	3	2	0	0	5	0
	7/17/86	0	0	0	0	0	0	2	0
	7/22/86	0	2	2	0	0	0	0	0
	7/24/86	0	108	154	34	5	2	139	17
	7/28/86	0	0	0	0	0	0	0	0
	8/01/86	0	0	0	4	0	0	3	0
	8/06/86	0	0	0	1	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86								
	8/18/86	0	0	0	0	0	0	2	0
	8/20/86	0	88	84	31	5	2	127	12
	8/27/86	0	0	0	0	0	0	2	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 320	9/09/86								
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	0	0	0	0	0	2	1
	9/18/86	0	0	61	0	0	0	40	0
	9/22/86								
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	1	2	0	0	0	0
	10/06/86	0	0	0	0	0	0	1	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86								
	10/24/86	0	0	0	0	0	0	1	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	1	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	2	0	0	0	0	0
	12/04/86								
	12/05/86	0	0	4	23	0	0	0	0
	12/10/86	0	0	5	0	0	0	0	0
	12/11/86								
	12/31/86	0	0	5	0	0	0	0	0
	1/06/87	0	0	1	2	0	0	0	0
	1/07/87	0	0	2	6	0	0	1	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 320	1/22/87								
	1/23/87								
	1/28/87	0	0	4	0	0	0	0	0
	1/30/87	0	2	42	2	2	0	1	0
	2/04/87	0	0	6	0	0	0	0	0
	2/06/87	0	0	7	0	0	0	0	0
	2/12/87	0	0	5	0	0	0	0	0
	2/23/87	0	0	0	0	0	0	0	0
	2/24/87	0	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/04/87								
	3/31/87	0	0	2	0	0	0	0	0
AVG. LOAD (kg/day)		0.000	0.165	0.305	0.087	0.009	0.003	0.264	0.024
AVG. PT. SOURCE CONC'N.		0.00	3.34	6.44	1.81	0.19	0.06	5.47	0.48
520	5/15/86	0	0	2	5	0	0	0	0
	5/20/86								
	5/22/86	0	1	8	50	0	0	4	0
	5/27/86	0	0	12	68	0	0	5	1
	5/29/86								
	6/03/86	0	0	2	16	0	0	3	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	3	0	0	0	0	0
	6/17/86	0	4		24	0	0	2	0
	6/20/86	0	0	0	0	0	0	1	0
	6/25/86	0	0	6	49	0	0	4	1

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY, 1986 - MARCH, 1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 520	6/27/86								
	7/03/86	0	0	4	0	0	0	0	0
	7/04/86	0	0	5	38	0	0	2	0
	7/07/86	0	0	2	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	3	6	0	4	40	10
	7/17/86	0	0	4	9	0	0	2	0
	7/22/86	0	0	5	9	0	0	0	0
	7/24/86	0	0	0	2	0	0	1	0
	7/28/86	0			21				
	8/01/86	0	2	7	24	0	0	8	0
	8/06/86	0	0	3	16	0	0	4	0
	8/08/86	0	0	6	37	0	0	6	0
	8/11/86	0	0	3	23	0	0	3	0
	8/15/86								
	8/18/86	0	0	2	17	0	0	2	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	0	3	35	0	0	4	0
	8/28/86	0	0	0	14	0	0	1	0
	9/03/86	0	0	1	6	0	0	1	0
	9/05/86	0	0	0	10	0	0	0	0
	9/09/86								
	9/11/86	0	0	2	0	0	0	0	0
	9/16/86	0	0	2	0	0	0	1	0
	9/18/86	0	0	1	11	0	0	1	0
	9/22/86	0	0	1	23	0	0	2	0
	9/26/86	0	0	2	10	0	0	2	0
	10/03/86	0	0	2	23	0	0	2	0
	10/06/86	0	0	1	25	0	0	3	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 520	10/09/86	0	0	1	18	0	0	1	0
	10/15/86	0	0	2	42	0	0	2	0
	10/17/86	0	0	1	15	0	0	1	0
	10/24/86	0	1	2	18	0	2	2	0
	10/28/86	0	0	2	14	0	1	1	0
	10/30/86	0	0	2	12	0	0	0	0
	11/04/86	0	0	0	8	0	0	1	0
	11/06/86	0	0	2		0	0	2	0
	11/12/86	0	0	1	1	0	0	0	0
	11/14/86	0	0	1	11	0	0	0	0
	11/20/86	0	0	1	0	0	0	0	0
	11/21/86	0	0	2	9	0	0	0	0
	11/25/86	0	0	2	14	0	0	2	0
	11/28/86	0	0	2	14	0	0	1	0
	12/04/86	0	0	4	18	0	0	0	0
	12/05/86	0	0	3	11	0	0	1	0
	12/10/86	0	0	5	18	0	0	3	0
	12/11/86	0	0	4	16	0	0	3	0
	12/31/86	0	0	3	11	0	0	1	0
	1/07/87	0	0	3	8	0	0	0	0
	1/22/87	0	0	5	10	0	0	0	0
	1/23/87								
	1/28/87	0	0	4	6	0	0	0	0
	1/30/87	0	0	4	0	0	0	1	0
	2/04/87	0	0	3	7	0	0	1	0
	2/06/87	0	0	5	8	0	0	1	0
	2/12/87	0	0	4	0	0	0	1	0
	2/23/87	0	0	3	7	0	0	1	0
	2/24/87	0	0	3	7	0	0	1	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 520	3/04/87	0	0	8	49	0	0	10	0
	3/17/87	0	0	3	7	0	0	0	0
	3/31/87	0	0	3	9	0	0	0	0
AVG. LOAD (kg/day)		0.000	0.004	0.073	0.405	0.000	0.003	0.058	0.005
AVG. PT. SOURCE CONC'N.		0.00	0.13	2.86	14.67	0.00	0.11	2.20	0.19
620	6/27/86								
	7/03/86	0	0	2	0	0	0	0	0
	7/04/86	0	0	0	2	0	0	2	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	1	3	0	0	2	0
	7/17/86	0	0	0	0	0	0	2	0
	7/22/86	0	0	1	0	0	0	0	0
	7/24/86	0	0	7	0	0	0	0	0
	7/28/86	0			0				
	8/01/86	0	0	0	3	0	0	1	0
	8/06/86	0	0	1	2	0	0	2	0
	8/08/86	0	0	2	3	0	0	2	0
	8/11/86	0	0	1	2	0	0	0	0
	8/15/86								
	8/18/86	0	0	2	4	0	0	2	0
	8/20/86	0	0	1	2	0	0	1	0
	8/27/86	0	0	2	3	0	0	2	0
	8/28/86	0	0	1	2	0	0	0	0
	9/03/86	0	0	1	2	0	0	2	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 620	9/05/86	0	0	2	2	0	0	1	0
	9/09/86								
	9/11/86	0	0	2	22	0	0	3	0
	9/16/86	0	1	3	4	0	0	3	1
	9/18/86	0	0	2	2	0	0	1	0
	9/22/86	0	7	24	26	0	0	5	2
	9/26/86	0	0	2	3	0	0	2	0
	10/03/86	0	2	5	6	0	0	1	0
	10/06/86	0	0	4	3	0	0	0	0
	10/09/86	0	0	4	3	0	0	1	0
	10/15/86	0	0	4	3	0	0	1	0
	10/17/86	0	0	2	3	0	0	1	0
	10/24/86	0	1	2	4	0	2	3	0
	10/28/86	0	0	3	3	0	0	1	0
	10/30/86	0	0	2	2	0	0	0	0
	11/04/86	0	0	2	2	0	0	0	0
	11/06/86	0	0	1	2	0	0	1	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	2	4	0	0	1	0
	11/20/86	0	0	2	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	1	4	2	0	0	0	0
	11/28/86	0	1	3	3	0	0	1	0
	12/04/86	0	0	5	6	0	0	0	0
	12/05/86	0	0	3	2	0	0	1	0
	12/10/86	0	0	3	2	0	0	1	0
	12/11/86	0	0	3	3	0	0	1	0
	12/31/86	0	0	4	2	0	0	1	0
	1/06/87	0	0	4	0	0	0	1	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 620	1/07/87	0	0	3	2	0	0		0
	1/22/87								
	1/23/87	0	0	3	0	0	0	0	0
	1/28/87	0	0	0	1	0	0	0	0
	1/30/87	0	0	2	0	0	0	0	0
	2/04/87	0	0	3	1	0	0	0	0
	2/06/87	0	0	3	1	0	0	1	0
	2/12/87	0	0	2	1	0	0	1	0
	2/23/87	0	0	3	1	0	0	1	0
	2/24/87	0	0	2	2	0	0	1	0
	3/04/87	0	0	4	2	0	0	1	0
	3/17/87	0	0	3	1	0	0	0	0
	3/31/87	0	0	3	2	0	0	2	0
AVG. LOAD (kg/day)		0.000	0.013	0.145	0.153	0.000	0.002	0.054	0.003
AVG. PT. SOURCE CONC'N.		0.00	0.23	2.68	2.74	0.00	0.04	1.02	0.05
720	5/15/86	0	0	0	0	0	0	1	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	1	0	0	10	21	0
	5/29/86								
	6/03/86	0	0	0	0	0	0	2	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	0	0	0	0	0	0
	6/17/86	0	0	1	0	0	0	5	0
	6/20/86	0	0	0	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 720	6/25/86	0	0	0	0	0	0	1	0
	6/27/86	0	0	0	0	0	0	0	0
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	0	0	0	0	1	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	4	3	0	5	19	6
	7/17/86	0	0	2	7	0	0	2	0
	7/22/86	0	0	1	0	0	0	0	0
	7/24/86	0	0	0	0	0	0	0	0
	7/28/86								
	8/01/86	0	0	0	1	0	0	0	0
	8/06/86	0	0	0	0	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	1	0
	8/15/86								
	8/18/86	0	0	2	2	0	0	2	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	2	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86								
	9/11/86	0	0	0	2	0	0	1	0
	9/16/86	0	0	0	0	0	0	1	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	2	0	0	0	0
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	1	3	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 720	10/06/86	0	0	0	1	0	0	1	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86	0	0	0	1	0	0	0	0
	10/24/86	0	1	1	1	0	1	2	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86								
	11/20/86								
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	0	0
	12/04/86	0	0	1	0	0	0	0	0
	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	2	0	0	0	0	0
	12/11/86	0	0	1	0	0	0	0	0
	12/31/86	0	0	0	0	0	0	0	0
	1/06/87								
	1/07/87	0	0	0	0	0	0	0	0
	1/22/87	0	0	0	0	0	0	0	0
	1/23/87	0	0	1	0	0	0	0	0
	1/28/87	0	0	0	1	0	0	0	0
	1/30/87	0	0	0	0	0	0	0	0
	2/04/87	0	0	1	0	0	0	0	0
	2/06/87	0	0	1	0	0	0	0	0
	2/12/87	0	0	2	0	0	0	0	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 720	2/23/87	0	0	0	0	0	0	0	0
	2/24/87	0	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	0	0	2	0	0	0	0	0
	3/31/87	0	0	0	0	0	0	0	0
AVG. LOAD (kg/day)		0.000	0.001	0.026	0.025	0.000	0.022	0.074	0.006
AVG. PT. SOURCE CONC'N.		0.00	0.02	0.37	0.37	0.00	0.25	0.95	0.09
920	5/15/86	0	0	0	0	0	0	0	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86								
	5/27/86	0	0	1	10	0	0	0	0
	5/29/86								
	6/03/86	0	0	10	8	0	0	3	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86								
	6/12/86	0	0	3	0	0	0	0	0
	6/17/86	0	0	0	8	0	0	8	0
	6/20/86	0	0	0	0	0	0	0	0
	6/25/86	0	0	0	0	0	0	2	0
	6/27/86								
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	0	4	0	0	1	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86								
	7/15/86	0	0	0	3	0	0	0	0
	7/17/86	0	0	0	2	0	0	4	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 920	7/22/86	0	0	0	0	0	0	0	0
	7/24/86	0	0	0	0	0	0	0	0
	7/28/86								
	8/01/86	0	0	0	0	0	0	0	0
	8/06/86	0	0	0	0	0	0	1	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	6	0
	8/15/86	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	3	0	0	0	0
	8/27/86	0	0	0	1	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0		1	0	0	0	0
	9/09/86								
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	0	0	1	0	0	0	0
	9/18/86	0	3	0	7	0	0	4	0
	9/22/86	0	0	3	5	0	0	1	0
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	0	1	0	0	0	0
	10/06/86	0	0	0	1	0	0	0	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	2	0	0	0	0
	10/17/86								
	10/24/86	0	4	5	3	0	2	5	0
	10/28/86	0	0	0	1	0	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	5	12	0	0	2	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
91 920	11/06/86	0	0	0	4	0	0	1	0
	11/12/86	0	2	0	0	0	0	2	0
	11/14/86	0	2	0	2	0	0	2	0
	11/20/86	0	4	0	1	0	0	0	0
	11/21/86	0	0	0		0	0	0	0
	11/25/86	0	10	2	1	0	0	10	0
	11/28/86	0	4	2	2	0	0	5	0
	12/04/86								
	12/05/86								
	12/10/86	0	5	3	4	0	0	7	0
	12/11/86	0	5	3	2	0	0	6	0
	12/31/86	0	4	9	3	0	0	5	3
	1/06/87								
	1/07/87	0	2	2	0	0	0		0
	1/22/87	0	0	9	0	0	0	4	0
	1/23/87								
	1/28/87	0	3	3	2	0	0	5	0
	1/30/87	0	7	5	2	0	0	9	0
	2/04/87	0	3	4	4	0	0	3	0
	2/06/87	0	4	5	2	0	0	7	0
	2/12/87	0	6	4	2	0	0	6	0
	2/23/87	0	3	2	0	0	0	3	0
	2/24/87	0	15	9	4	0	1	13	3
	3/04/87	0	0	2	2	0	0	2	0
	3/17/87	0	2	0	2	0	0	0	0
	3/31/87	0	0	1	3	0	0	4	0

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ug/l)

OUTFALL	DATE	1,3-DICHLORO-BENZENE	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHANE	TETRACHLORO-ETHYLENE	1,1,2,2-TETRA-CHLOROETHANE	1,1-DICHLORO-ETHYLENE	1,1,1-TRI-CHLOROETHANE	1,1,2-TRI-CHLOROETHANE
AVG. LOAD (kg/day)		0.000	0.484	0.533	0.684	0.000	0.017	0.741	0.032
AVG. PT. SOURCE CONC'N.		0.00	1.42	1.51	1.89	0.00	0.05	2.15	0.10

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(ng/l)

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
3 220	5/15/86	0	0	0	0	0	0	35	0	0	0	0
	5/20/86	0	0	0	0	0	2	15	5	0	0	0
	5/22/86	0	0	0	0	0	0	6	0	0	0	0
	5/27/86	0	0	0	0	0	0	19	1	0	0	0
	5/29/86	0	0	0	0	2	4	48	2	0	0	0
	6/03/86	0	0	0	0	0	1	19	1	1	0	0
	6/05/86	0	0	0	0	0	3	26	1	0	0	0
	6/10/86	0	0	0	0	0	2	25	0	0	0	0
	6/12/86	0	0	0	0	0	4	95	3	0	0	0
	6/17/86	0	0	0	0	0	2	32	2	0	2	0
	6/20/86	0	0	0	0	0	8	33	7	0	0	0
	6/25/86	0	0	0	0	0	2	42	0	0	0	0
	6/27/86	0	0	0	0	0	17	80	2	0	0	0
	7/03/86	0	0	6	0	0	3	31	0	0	0	0
	7/04/86	0	0	5	0	0	3	74	1	0	0	0
	7/07/86	5	0	11	8	0	2	42	2	0	0	0
	7/10/86	0	0	0	0	0	0	27	4	0	0	0
	7/15/86	0	0	0	0	0	3	25	0	0	0	0
	7/17/86	0	0	0	0	5	1	40	4	0	0	0
	7/22/86	0	0	0	0	2	0	56	0	0	0	0
	7/24/86	0	0	0	0	0	130	360	2	0	0	0
	7/28/86	0	0	0	0	0	4	50	2	0	0	0
	8/01/86	0	0	0	0	0	2	65	0	0	0	0
	8/06/86											

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
3 220	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	34	0	0	0	0
	8/15/86	0	0	0	0	0	0	42	0	0	0	0
	8/18/86	0	0	0	0	0	0	87	0	0	0	0
	8/20/86	0	0	0	0	0	0	55	0	0	0	0
	8/27/86											
	8/28/86	0	0	0	0	0	0	12	0	0	0	0
	9/03/86	0	0	0	0	0	2	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	4	0	0	2	6	2	0	2	0
	9/11/86	0	0	0	0	0	0	0	0	0	0	0
	9/16/86	0	0	0	0	0	0	30	0	0	0	0
	9/18/86	0	0	0	0	0	0	30	0	0	0	0
	9/22/86	0	0	0	0	0	0	34	0	0	0	0
	9/26/86	0	0	0	0	0	1	42	0	0	0	0
	10/03/86	0	0	0	0	0	0	33	1	0	0	0
	10/06/86	0	0	0	0	0	1	24	1	0	0	0
	10/09/86	0	0	0	0	0	2	25	0	0	0	0
	10/15/86	0	0	0	0	0	0	20	0	0	0	0
	10/17/86	0	0	0	0	0	0	22	1	0	0	0
	10/24/86	0	0	0	0	0	0	30	0	0	0	0
	10/28/86	0	0	0	0	0	0	35	1	0	0	0
	10/30/86	0	0	0	0	0	0	40	1	0	0	0
	11/04/86	0	0	0	0	0	0	30	0	0	0	0
	11/06/86	0	0	0	0	0	0	15	0	0	0	0
	11/12/86	0	0	0	0	0	1	60	0	0	0	0
	11/14/86	0	0	0	0	0	1	80	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
3 220	11/20/86	0	0	0	0	0	0	16	0	0	0	0
	11/21/86	0	0	0	0	0	15	15	0	0	0	0
	11/25/86	0	0	0	0	0	1	5	1	0	0	0
	11/28/86	0	0	0	3	0	0	0	1	0	0	0
	12/04/86	0	0	0	1	0	0	12	0	0	0	0
	12/05/86	0	0	0	0	0	0	2	2	0	0	0
	12/10/86	0	0	0	0	0	0	0	0	0	0	0
	12/11/86	0	0	0	0	0	0	8	0	0	0	0
	12/31/86	0	0	0	0	0	0	5	0	0	0	0
	1/06/87	0	0	0	0	0	0	2	3	0	0	0
	1/07/87	0	0	0	0	0	0	6	0	0	0	0
	1/22/87	0	0	0	0	10	0	13	2	0	0	0
	1/23/87											
	1/28/87	0	0	0	0	0	0	20	0	0	0	0
	1/30/87	0	0	0	0	0	10	8	0	0	0	0
	2/04/87											
	2/06/87	0	0	11	0	0	0	5	0	0	0	0
	2/12/87											
	2/23/87	0	0	0	0	0	0	6	0	0	0	0
	2/24/87	0	0	0	0	0	0	3	1	0	0	0
	3/04/87	0	0	0	0	0	0	6	0	0	0	0
	3/17/87	0	0	0	0	0	0	10	3	0	0	0
	3/31/87	12	0	0	0	0	0	5	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.25	0.00	0.54	0.17	0.28	3.32	31.57	0.86	0.01	0.06	0.00
3 620	5/15/86						0					
	5/20/86	15	1	0	0	2	7	5	2	0	0	3
	5/22/86	0	6	10	11	3	6	4	4	0	0	0
	5/27/86	4	7	27	0	2	5	5	4	5	0	2
	5/29/86	36	0	30	28	0		6	2	22	52	0
	6/03/86	0	0	32	8	4	3	13	4	6	0	5
	6/05/86	0	0	22	4	8	2	6	4	29	0	13
	6/10/86	4	0	0	0	0	4	9	2	0	0	15
	6/12/86	0	0	143	53	0	35	130	4	7	8	11
	6/17/86	23	0	530	154	0	8	10	5	10	0	0
	6/20/86	21	3	19	6	0	9	11	8	308	14	0
	6/25/86	4	0	9	12	0	3	9	3	0	8	0
	6/27/86	0	0	8	0	0	3	7	6	0	0	9
	7/03/86	0	0	43	0	0	3	7	0	0	8	0
	7/04/86	0	0	0	0	0	2	10	7	0	30	17
	7/07/86	0	0	3	2	0	0	0	0	0	12	0
	7/10/86	17	0	0	0	0	3	4	0	13	0	0
	7/15/86											
	7/17/86	0	3	7	0	0	0	7	10	68	0	0
	7/22/86	35	0	9	38	0	10	9	3	96	86	0
	7/24/86	0	0	6	0	0	0	2	0	30	0	7
	7/28/86	13	14	0	0	0	2	0	2	25	0	20

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
3 620	8/01/86	0	0	0	0	0	23	150	150	7	715	0
	8/06/86											
	8/08/86	0	0	0	0	0	26	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	70	0	0	0	0
	9/05/86	0	0	0	0	0	8	0	0	0	0	0
	9/09/86	0	0	9	0	0	7	2	0	0	5	0
	9/11/86	0	0	0	0	0	0	33	9	0	0	0
	9/16/86	0	0	0	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0	0	0	0
	9/22/86	0	0	30	0	0	4	20	0	0	0	0
	9/26/86	0	3	12	2	0	3	3	0	0	3	0
	10/03/86	0	0	0	0	0	5	10	3	0	0	0
	10/06/86	0	3	0	0	0	0	0	5	0	0	0
	10/09/86	0	0	0	0	0	3	2	0	0	0	0
	10/15/86	50	40	0	51	0	0	0	0	0	0	18
	10/17/86	0	0	0	14	0	0	2	0	0	0	0
	10/24/86	0	0	0	0	0	0	2	0	0	0	0
	10/28/86	0	0	0	0	0	9	0	9	0	0	0
	10/30/86	0	0	0	0	20	3	3	0	0	0	1
	11/04/86	0	0	0	0	20	3	2	10	0	0	0
	11/06/86	0	0	0	0	0	3	1	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRICHLORO-BENZENE	1,2,4,5-TETRACHLORO-BENZENE	1,3,5-TRICHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,8-TCT
3 620	11/12/86	0	6	0	0	0	4	3	4	0	0	0
	11/14/86	0	11	0	0	0	2	4	0	0	0	0
	11/20/86	0	0	0	0	0	3	5	0	0	0	0
	11/21/86	0	0	0	0	0	4	9	0	0	0	0
	11/25/86											
	11/28/86	0	0	0	3	0	3	0	3	0	0	0
	12/04/86	6	6	0	1	0	4	4	0	0	0	10
	12/05/86	2	3	0	0	0	3	2	2	0	0	8
	12/10/86	0	0	0	0	0	30	0	35	0	0	0
	12/11/86	0	0	0	0	0	0	0	0	0	0	0
	12/31/86	0	0	0	3	80	1	310	75	0	0	0
	1/06/87	0	6	0	0	0	1	0	2	0	0	0
	1/07/87	0	0	0	0	0	0	0	2	0	0	0
	1/22/87	0	15	0	0	0	4	11	7	0	0	1
	1/23/87											
	1/28/87	0	17	0	0	0	3	225	10	6	6	4
	1/30/87	0	0	0	0	0	2	30	7	0	0	0
	2/04/87											
	2/06/87	3	0	0	0	10	5	8	0	0	0	0
	2/12/87	20	0	0	0	13	2	15	4	0	0	0
	2/23/87	2	2	10	11	0	6	10	0	0	0	0
	2/24/87	0	0	0	60	0	4	2	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0	0	0	0
	3/17/87	0	0	0	0	0	0	7	2	0	0	0
	3/31/87	0	0	0	0	0	0	4	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5 TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		3.75	2.15	14.10	6.78	2.38	4.16	17.69	6.01	9.29	13.93	2.12
15 7	5/15/86						0					
	5/20/86	0	0	0	0	3	31	0	0	0	130	0
	5/22/86	0	3	0	1	0	5	260	0	0	34	0
	5/27/86	0	4	0	0	0	6	260	19	0	29	3
	5/29/86	0	0	20	0	1	4	230	12	0	18	0
	6/03/86	0	0	0	0	0	3	215	4	0	7	0
	6/05/86	0	0	0	0	0	6	232	2	0	10	0
	6/10/86											
	6/12/86	230	200	0	200	71	3130	44600	0	0	3260	0
	6/17/86	0	0	0	0	0	75	0	69	0	0	0
	6/20/86											
	6/25/86											
	6/27/86	0	0	0	0	0	5	340	0	0	24	0
	7/03/86	0	0	14	0	0	9	274	10	0	5	0
	7/04/86	0	0	0	0	0	0	250	5	0	7	2
	7/07/86	0	0	0	0	0	5	305	9	0	8	0
	7/10/86	0	0	0	0	0	2	6	0	0	0	0
	7/15/86	0	0	68	0	12	16	580	24	11	36	4
	7/17/86	0	0	21	0	3	4	260	8	0	16	0
	7/22/86	0	0	0	0	58	5	440	22	0	32	0
	7/24/86	0	0	23	0	8	6	530	18	0	30	0
	7/28/86	0	0	30	0	5	10	540	0	3	18	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
15 7	8/01/86	0	0	0	0	0	9	450	24	0	0	0
	8/06/86	0	0	0	0	0	7	7	0	0	0	0
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	29	0	0	9	396	21	0	0	0
	8/15/86	0	0	0	0	0	0	240	23	0	0	0
	8/18/86	0	0	0	0	0	5	0	0	0	0	0
	8/20/86	0	0	18	0	0	0	290	20	0	0	0
	8/27/86	0	0	0	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	205	25	0	0	0
	9/03/86	0	0	0	0	0	0	116	0	0	0	0
	9/05/86	0	0	0	0	0	0	60	10	0	0	0
	9/09/86	0	0	27	0	7	5	180	10	0	0	0
	9/11/86	0	0	25	0	3	9	380	0	0	0	0
	9/16/86	0	0	0	0	0	27	1010	160	0	0	0
	9/18/86	0	0	30	0	0	6	250	0	0	0	0
	9/22/86	77	0	0	190	0	650	0	480	0	0	0
	9/26/86	0	8	425	7	15	17	2120	0	0	0	2
	10/03/86	0	0	0	8	0	21	2500	138	0	136	0
	10/06/86	0	18	0	0	0	270	170	330	0	0	0
	10/09/86	0	0	0	0	0	5	435	18	0	40	0
	10/15/86	0	0	0	0	0	9	1285	45	0	50	0
	10/17/86	0	0		0	0	3	488	27	0	30	0
	10/24/86	0	0	0	0	0	2	235	20	0	25	0
	10/28/86	0	0	0	0	0	4	625	50	0	45	2
	10/30/86	0	0	0	0	0	3	410	35	0	35	0
	11/04/86	0	0	0	0	0	3	325	35	0	35	0
	11/06/86	0	0	0	0	0	2	320	30	0	9	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4 TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6 TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
15 7	11/12/86	0	0	0	0	0	4	180	0	0	9	0
	11/14/86	0	0	0	0	0	3	120	0	0	4	0
	11/20/86	0	0	0	0	0	2	85	0	0	7	0
	11/21/86	0	0	0	0	0	3	300	90	0	20	0
	11/25/86	0	0	0	0	0	3	200	55	0	25	0
	11/28/86	0	5	0	1	0	5	740	155	0	45	0
	12/04/86	0	0	0	0	0	7	530	60	0	20	0
	12/05/86	0	0	0	0	0	4	720	130	0	0	0
	12/10/86	0	0	0	0	0	2	3	0	0	0	0
	12/11/86	0	3	0	0	73	7	530	80	0	0	0
	12/31/86	0	0	0	0	0	2	1	0	0	0	0
	1/06/87	0	0	0	0	0	0	0	0	0	0	0
	1/07/87	0	0	0	0	0	8	995	195	0	115	0
	1/22/87											
	1/23/87											
	1/28/87	0	4	0	4	0	0	335	140	0	0	0
	1/30/87	0	0	0	0	0	0	335	145	0	90	0
	2/04/87	0	35	0	8	120	0	540	160	0	0	12
	2/06/87	0	0	220	0	65	2	280	140	0	0	0
	2/23/87	1	3	0	4	0	3	380	135	0	60	0
	2/24/87	3	1	0	0	80	2	330	100	0	50	0
	3/04/87	0	0	0	0	0	0	580	60	0	115	0
	3/17/87	0	0	0	0	0	4	330	23	0	35	0
	3/31/87	0	6	0	4	0	23	1300	60	0	140	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.001	0.001	0.002	0.001	0.001	0.009	0.140	0.007	0.000	0.010	0.000
AVG. PT. SOURCE CONC'N.		4.64	4.33	14.39	6.37	7.82	65.76	1054.22	51.21	0.21	71.70	0.37
91 220	5/15/86						0					
	5/20/86	0	0	0	0	0	300	640	860	0	2300	0
	5/22/86	0	0	0	0	0	140	160	140	0	1020	0
	5/27/86	10	0	0	7	0	160	680	770	0	2000	125
	5/29/86	4	0	22	0	0	11	270	520	0	1800	53
	6/03/86	3	0	0	0	0	900	1400	0	0	1500	0
	6/05/86	0	0	0	0	0	102	370	0	0	1340	0
	6/10/86	0	0	0	0	0	15	270	0	0	1300	0
	6/12/86	14	0	0	0	6	250	1600	0	0	2250	0
	6/17/86	18	0	0	0	0	260	870	1370	0	3000	0
	6/20/86	7	0	0	0	0	165	540	625	0	2000	0
	6/25/86	5	0	0	0	0	112	0	480	0	15	0
	6/27/86	0	0	0	0	0	71	270	0	0	0	0
	7/03/86	4	0	500	5	0	110	460	610	0	1600	85
	7/04/86	40	0	250	6	0	92	250	610	0	1700	103
	7/07/86	5	0	510	8	0	129	490	870	0	2560	0
	7/10/86	0	0	0	0	0	85	32	9	0	310	0
	7/15/86	0	0	0	1	0	40	310	460	0	1700	0
	7/17/86	16	0	0	0	0	260	710	1020	0	2500	0
	7/22/86	0	0	0	0	6	50	140	120	0	1220	0
	7/24/86	0	0	0	0	0	23	140	165	0	0	0
	7/28/86	0	0	0	3	0	40	210	330	0	1800	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRICHLORO-BENZENE	1,2,4,5-TETRACHLORO-BENZENE	1,3,5-TRICHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
01 220	8/01/86	0	0	0	0	2	40	230	0	0	12	0
	8/06/86											
	8/08/86	0	0	0	0	0	165	0	0	0	0	0
	8/11/86	0	0	0	0	0	35	71	35	0	0	0
	8/15/86	0	0	0	0	0	0	60	150	0	0	0
	8/18/86	0	0	0	0	0	0	85	130	0	0	0
	8/20/86	0	0	0	0	0	0	55	90	0	0	0
	8/27/86	0	0	0	0	0	0	165	140	0	0	0
	8/28/86	0	0	0	0	0	0	105	145	0	0	0
	9/03/86	0	0	0	0	0	0	160	260	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	0	0	0	35	95	0	0	0	0
	9/11/86	0	0	0	0	0	32	104	240	0	0	0
	9/16/86	0	0	0	0	0	40	130	200	0	0	0
	9/18/86	0	0	0	0	0	30	180	0	0	0	0
	9/22/86	0	0	0	0	0	115	360	270	0	0	0
	9/26/86	0	0	0	0	0	280	510	0	0	0	45
	10/03/86	0	0	2100	3	0	293	1500	40000	0	650	0
	10/06/86	0	0	0	0	0	50	315	18000	0	1000	30
	10/09/86	0	0	0	0	0	35	250	1725	0	810	40
	10/15/86											
	10/17/86	0	0	0	0	0	35	257	1769	0	790	18
	10/24/86	0	0	0	0	0	45	325	4060	0	1105	25
	10/28/86	0	0	0	0	0	460	410	1480	0	1185	60
	10/30/86	5	0	0	0	0	80	950	715	0	1110	0
	11/04/86	5	0	0	0	0	40	285	1040	0	1115	65
	11/06/86	0	0	0	0	0	44	120	610	0	670	20

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 220	11/12/86	0	0	0	0	0	16	165	290	0	480	0
	11/14/86	0	0	0	0	0	1320	9500	0	0	500	0
	11/20/86	0	0	0	0	0	450	3400	0	0	400	0
	11/21/86	0	0	0	0	0	50	250	0	0	550	0
	11/25/86	0	0	0	0	0	40	80	90	0	390	0
	11/28/86	0	0	0	0	0	55	350	560	0	900	0
	12/04/86	0	0	35	1	0	4	10	0	0	11	0
	12/05/86	0	0	0	0	0	20	100	190	0	0	26
	12/10/86	10	0	0	0	90	260	480	1020	0	0	0
	12/11/86	6	0	0	0	90	25	280	770	0	0	0
	12/31/86	2	0	0	0	65	14	145	450	0	0	0
	1/06/87	3	0	0	0	65	17	290	1100	0	0	0
	1/07/87	0	0	0	0	30	11	110	320	0	0	0
	1/22/87											
	1/23/87											
	1/28/87	0	10	0	10	0	75	260	880	0	2780	0
	1/30/87	0	0	0	0	0	45	2	0	0	30	0
	2/04/87	0	0	0	0	7	13	30	60	0	0	0
	2/06/87	0	0	0	0	30	16	170	610	0	0	0
	2/12/87	5	4	0	5	30	90	240	570	0	2000	0
	2/23/87	12	3	0	9	0	240	360	530	0	3200	0
	2/24/87	4	3	0	0	3	85	225	500	0	1950	0
	3/04/87	0	0	0	6	0	80	255		0	1700	0
	3/17/87	0	6	0	0	0	95	290	85	0	2500	0
	3/31/87	0	4	0	0	0	45	210	55	0	1800	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.000	0.000	0.003	0.000	0.000	0.007	0.028	0.077	0.000	0.048	0.001
AVG. PT. SOURCE CONC'N.		2.58	0.43	49.52	0.93	6.14	117.64	488.93	1295.56	0.00	863.09	10.07
01 320	5/15/86						0					
	5/20/86	0	0	0	0	0	2	8	3	0	8	0
	5/22/86	0	0	0	0	0	1	10	3	0	6	0
	5/27/86	0	0	0	0	0	1	5	5	0	6	0
	5/29/86	0	0	0	0	0	1	5	4	0	4	0
	6/03/86	0	0	0	0	0	9	16	0	0	5	0
	6/05/86	0	0	0	0	0	1	8	2	0	5	0
	6/10/86	0	0	0	0	0	2	8	3	0	7	0
	6/12/86	2	7	0	7	3	200	1200	0	0	32	0
	6/17/86	0	0	0	0	0	6	26	13	0	7	0
	6/20/86	0	0	9	0	2	3	20	27	0	0	0
	6/25/86	0	0	3	0	0	0	4	3	0	3	0
	6/27/86	0	0	0	0	0	1	11	4	0	4	0
	7/03/86	0	0	8	0	0	2	17	5	0	4	0
	7/04/86	0	0	11	0	0	1	11	3	0	4	0
	7/07/86	0	0	0	0	0	0	0	0	0	0	0
	7/10/86	0	0	0	0	0	0	17	3	0	0	0
	7/15/86	0	0	0	0	0	1	10	0	0	0	0
	7/17/86	0	0	0	0	0	2	15	1	0	0	0
	7/22/86	0	0	0	0	0	0	7	1	0	0	0
	7/24/86	0	0	0	0	0	0	0	0	0	0	0
	7/28/86	0	0	0	0	0	0	14	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 320	8/01/86	0	0	0	0	0	4	10	0	0	0	0
	8/06/86											
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	13	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	0	0	0	0	6	0	0	0	0
	9/11/86	0	0	0	0	0	0	16	0	0	0	0
	9/16/86	0	0	0	0	0	0	10	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	50	350	20	0	0	0
	9/26/86	0	0	8	0	0	2	42	2	0	5	0
	10/03/86	0	0	0	0	0	1	12	11	0	0	0
	10/06/86	0	0	0	0	0	1	10	5	0	0	0
	10/09/86	0	0	0	0	0	0	6	0	0	0	0
	10/15/86	0	0	0	0	0	0	11	3	0	0	0
	10/17/86	0	0	0	0	0	3	14	3	0	0	0
	10/24/86	0	0	0	0	0	0	9	3	0	0	0
	10/28/86	0	0	0	0	0	6	7	2	0	0	0
	10/30/86	0	0	0	0	0	0	8	2	0	0	0
	11/04/86	0	0	0	0	0	8	4	0	0	0	0
	11/06/86	0	0	0	0	0	0	6	2	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 320	11/12/86	0	0	0	0	0	0	4	3	0	0	0
	11/14/86	0	0	0	0	0	1	8	0	0	0	0
	11/20/86	0	0	0	0	0	0	4	0	0	0	0
	11/21/86	0	0	0	0	0	0	4	0	0	0	0
	11/25/86	0	0	0	0	0	0	2	0	0	9	0
	11/28/86	0	0	0	0	0	0	4	0	0	0	0
	12/04/86	0	0	0	1	0	0	7	0	0	9	0
	12/05/86	0	0	0	0	0	0	3	2	0	0	0
	12/10/86	0	0	0	0	10	10	80	70	0	0	0
	12/11/86	0	0	0	0	6	0	10	20	0	0	0
	12/31/86	0	0	0	0	5	0	6	13	0	0	0
	1/06/87	0	0	0	0	0	0	9	2	0	0	0
	1/07/87	0	0	0	0	0	0	5	12	0	0	0
	1/22/87	0	0	0	0	0	0	8	0	0	5	0
	1/23/87											
	1/28/87	0	0	0	0	7	3	25	25	0	120	0
	1/30/87	0	0	0	0	0	6	20	50	0	225	0
	2/04/87	0	0	0	0	2	2	30	10	0	0	2
	2/06/87	0	0	0	0	3	0	10	35	0	0	0
	2/12/87											
	2/23/87	0	0	0	0	0	0	4	7	0	20	0
	2/24/87	0	0	0	0	0	0	3	4	0	4	0
	3/04/87	0	0	0	0	0	0	8	5	0	20	0
	3/17/87	0	0	0	0	0	0	8	7	0	0	0
	3/31/87	0	0	0	0	0	7	19	5	0	14	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.03	0.10	0.56	0.11	0.54	4.75	31.81	5.76	0.00	7.51	0.03
91 520	5/15/86						0					
	5/20/86	0	0	0	0	0	2	84	85	0	14	0
	5/22/86	0	0	0	0	0	3	11	23	0	16	0
	5/27/86	0	0	0	0	0	3	710	440	0	0	0
	5/29/86	0	0	0	0	2	2	26	5	0	7	0
	6/03/86	0	0	0	0	0	5	16	0	0	7	0
	6/05/86	0	0	15	0	0	3	12	0	0	9	0
	6/10/86	0	0	0	0	0	1	5	2	0	25	0
	6/12/86	0	4	0	0	3	54	655	5	0	29	0
	6/17/86	0	0	0	0	0	9	30	45	0	15	0
	6/20/86	0	0	0	0	0	10	15	7	0	10	0
	6/25/86	4	0	0	0	3	36	17	0	0	8	0
	6/27/86	0	0	14	0	0	1	18	32	0	9	0
	7/03/86	0	0	16	0	2	5	20	23	0	30	0
	7/04/86	0	0	13	0	0	2	16	20	0	8	0
	7/07/86	0	0	0	0	0	1	15	10	0	9	0
	7/10/86	0	0	0	0	0	1	0	0	0	0	0
	7/15/86	0	0	0	0	1	0	17	13	0	9	0
	7/17/86	0	0	0	0	2	6	24	25	0	12	0
	7/22/86	0	0	0	0	0	3	5	2	0	0	0
	7/24/86	0	0	0	0	0	0	28	15	0	0	0
	7/28/86	0	0	0	0	0	3	10	8	0	7	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
1 520	8/01/86	0	0	0	0	0	0	12	16	0	0	0
	8/06/86											
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	24	0	0	0
	8/15/86	0	0	0	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	30	20	0	0	0
	8/28/86	0	0	0	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	16	25	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	9	0	0	1	9	13	0	2	0
	9/11/86	0	0	19	0	0	2	22	23	0	4	0
	9/16/86	0	0	0	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	50	300	35	0	0	0
	9/26/86	0	0	8	0	0	3	28	0	0	5	0
	10/03/86	0	0	0	0	0	2	20	44	0	8	0
	10/06/86	0	0	0	0	0	1	20	30	0	0	0
	10/09/86	0	0	0	0	0	0	14	17	0	0	0
	10/15/86	0	0	0	0	0	243	32	56	0	6	0
	10/17/86	0	0	0	0	0	0	10	319	0	0	0
	10/24/86	0	0	0	0	0	0	30	70	0	8	0
	10/28/86	0	0	0	0	0	4	20	22	0	0	0
	10/30/86	0	0	0	0	0	0	9	20	0	0	0
	11/04/86	0	0	70	0	0	3	40	3510	0	35	0
	11/06/86	0	0	0	0	0	0	15	25	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 520	11/12/86	0	0	0	0	0	1	20	0	0	4	0
	11/14/86	0	0	0	0	0	1	14	0	0	4	0
	11/20/86	0	0	0	0	0	1	16	0	0	3	0
	11/21/86	0	0	0	0	0	0	18	0	0	6	0
	11/25/86	0	0	0	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	18	0	0	8	0
	12/04/86	0	0	0	0	0	1	22	28	0	12	0
	12/05/86	0	0	0	0	0	0	3	2	0	0	0
	12/10/86	0	0	0	0	3	0	15	20	0	0	0
	12/11/86	0	0	0	0	3	0	13	17	0	0	0
	12/31/86	0	0	0	0	0	1	7	10	0	0	0
	1/07/87	0	0	0	0	0	2	10	13	0	0	0
	1/22/87											
	1/23/87	0	0	0	0	0	0	7	7	0	4	0
	1/28/87	0	0	0	0	5	0	8	12	0	14	0
	1/30/87	0	0	0	0	0	0	25	2	0	6	0
	2/04/87											
	2/06/87	0	0	0	0	0	5	11	15	0	0	0
	2/12/87	0	0	0	0	0	1	12	16	0	7	0
	2/23/87	0	0	0	0	0	5	8	10	0	3	0
	2/24/87	0	0	0	0	0	1	9	11	0	10	0
	3/04/87	0	0	0	0	0	3	12	10	0	10	0
	3/17/87	0	0	0	0	0	3	13	13	0	0	0
	3/31/87											

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.06	0.06	2.41	0.00	0.35	7.01	38.56	76.69	0.00	5.63	0.00
1 620	6/27/86	0	0	34	0	0	2	11	3	0	10	0
	7/03/86	0	0	33	0	0	3	18	14	0	11	0
	7/04/86	0	0	10	0	0	1	12	11	0	8	0
	7/07/86	0	0	0	0	0	2	14	7	0	11	0
	7/10/86	0	0	13	0	0	2	18	4	0	20	0
	7/15/86	0	0	0	0	0	1	14	10	0	11	0
	7/17/86	0	0	0	0	0	3	20	13	0	12	0
	7/22/86	0	0	20	0	0	2	5	3	0	15	0
	7/24/86	0	0	30	0	0	0	9	2	0	0	0
	7/28/86	0	0	66	0	0	0	16	5	0	13	0
	8/01/86	0	0	0	0	0	0	0	12	0	0	0
	8/06/86											
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	24	0	0	0	10	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0	0	0	0
	8/18/86	0	0	35	0	0	0	10	9	0	0	0
	8/20/86	0	0	20	0	0	0	3	0	0	0	0
	8/27/86	0	0	40	0	0	0	0	0	0	0	0
	8/28/86	0	0	110	0	0	0	0	0	0	0	0
	9/03/86	0	0	15	0	0	0	18	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	8	0	0	3	21	6	0	4	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 620	9/11/86	0	0	0	0	0	1	12	0	0	0	0
	9/16/86	0	0	0	0	0	0	17	0	0	0	0
	9/18/86	0	0	0	0	0	0	8	0	0	0	0
	9/22/86	0	0	0	0	0	25	300	70	0	0	0
	9/26/86	0	0	33	0	2	3	21	0	0	7	0
	10/03/86	0	0	0	0	0	2	10	25	0	0	0
	10/06/86	0	0	0	0	0	3	9	14	0	9	0
	10/09/86											
	10/15/86						1					
	10/17/86	0	0	0	0	0	6	27	19	0	13	0
	10/24/86	0	0	0	0	0	0	10	20	0	6	0
	10/28/86	0	0	0	0	0	9	20	16	0	19	0
	10/30/86	0	0	50	0	0	2	15	9	0	0	0
	11/04/86	0	0	0	0	0	0	5	7	0	0	0
	11/06/86	0	0	0	0	0	1	4	6	0	0	0
	11/12/86	0	0	0	0	0	0	4	4	0	3	0
	11/14/86	0	0	13	0	0	4	250	0	0	3	0
	11/20/86	0	0	34	0	0	1	5	0	0	3	0
	11/21/86	0	0	0	0	0	0	5	8	0	4	0
	11/25/86	0	0	50	0	0	50	10	30	0	6	0
	11/28/86	0	0	0	0	0	1	8	0	0	11	0
	12/04/86	0	7	0	8	0	870	3100	1080	0	1700	0
	12/05/86	0	0	0	0	0	0	11	7	0	0	0
	12/10/86	0	0	0	0	0	0	7	8	0	0	0
	12/11/86	0	0	0	0	0	0	6	6	0	0	0
	12/31/86	0	0	0	0	0	0	3	5	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 620	1/06/87	0	0	0	0	0	3	6	7	0	0	0
	1/07/87	0	0	0	0	0	0	6	9	0	0	0
	1/22/87											
	1/23/87											
	1/28/87	0	0	26	0	0	0	3	6	0	4	0
	1/30/87	0	0	0	0	0	0	15	2	0	6	0
	2/04/87											
	2/06/87	0	0	0	0	0	1	7	4	0	0	0
	2/12/87	0	0	0	0	0	1	3	7	0	0	0
	2/23/87	0	0	0	0	0	1	6	7	0	5	0
	2/24/87	0	0	0	0	0	1	4	4	0	7	0
	3/04/87	0	0	0	0	0	0	4	20	0	2	0
	3/17/87	0	0	0	0	0	0	10	13	0	24	0
	3/31/87											
AVG. LOAD (kg/day)		0.000	0.000	0.001	0.000	0.000	0.001	0.004	0.001	0.000	0.002	0.000
AVG. PT. SOURCE CONC'N.		0.00	0.13	12.07	0.15	0.04	17.95	75.09	27.49	0.00	35.40	0.00
720	5/15/86	0	0	0	0	0	0	26	0	0	0	0
	5/20/86	0	0	0	0	0	3	26	3	0	6	0
	5/22/86	0	0	0	0	0	1	4	1	0	0	0
	5/27/86	0	0	0	0	0		0		0	0	0
	5/29/86	20	27	40	0	28	0	24	30	7	26	28
	6/03/86	0	0	0	0	0	3	7	0	0	0	0
	6/05/86	0	0	0	0	0	1	6	3	0	4	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 720	6/10/86	0	0	0	0	0	1	7	3	0	5	0
	6/12/86	0	4	0	5	4	52	1500	0	0	37	0
	6/17/86	0	0	0	0	16	9	27	16	0	10	0
	6/20/86	0	0	0	0	0	2	7	2	0	8	0
	6/25/86	0	0	0	0	0	4	15	0	0	4	0
	6/27/86	0	0	18	0	0	4	8	3	0	4	0
	7/03/86											
	7/04/86	0	0	10	0	0	2	14	7	0	6	0
	7/07/86	0	0	0	0	0	0	10	4	0	5	0
	7/10/86	0	0	7	0	0	11	16	5	0	6	0
	7/15/86	0	0	0	0	0	0	18	17	0	0	0
	7/17/86	0	0	0	0	0	2	15	8	0	7	0
	7/22/86	0	0	240	0	0	3	70	4	0	0	0
	7/24/86	0	0	0	0	0	0	0	8	0	0	0
	7/28/86	0	0	28	0	0	2	9	2	0	0	0
	8/01/86	0	0	0	0	0	0	0	0	0	0	0
	8/06/86											
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	0	0	0	0	0
	8/28/86											
	9/03/86	0	0	0	0	0	0	13	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0	0	0	0
	9/09/86	0	0	7	0	0	2	13	8	0	2	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 720	9/11/86	0	0	0	0	0	0	15	0	0	0	0
	9/16/86	0	0	0	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	30	320	21	0	0	0
	9/26/86	0	0	0	0	0	0	20	0	0	2	0
	10/03/86	0	0	0	0	0	1	17	70	0	0	0
	10/06/86	0	0	0	0	0	1	10	25	0	0	0
	10/09/86											
	10/15/86	0	0	0	0	0	0	7	3	0	0	0
	10/17/86	0	0	0	0	0	0	8	7	0	0	0
	10/24/86	0	0	0	0	0	0	3	8	0	0	0
	10/28/86	0	0	0	0	0	2	9	4	0	0	0
	10/30/86	0	0	9	0	0	0	0	3	0	0	0
	11/04/86	0	0	0	0	0	0	6	15	0	0	0
	11/06/86	0	0	0	0	0	0	4	3	0	0	0
	11/12/86	0	0	0	0	0	0	4	3	0	0	0
	11/14/86	0	0	5	0	0	16	20	0	0	3	0
	11/20/86	0	0	0	0	0	0	4	0	0	0	0
	11/21/86	0	0	0	0	0	0	5	0	0	0	0
	11/25/86	0	0	0	0	0	0	4	6	0	5	0
	11/28/86	0	0	0	1	0	2	8	0	0	6	0
	12/04/86	0	0	0	0	0	0	5	6	0	0	0
	12/05/86	0	0	0	0	0	0	0	6	0	0	0
	12/10/86	0	0	0	0	0	0	7	5	0	0	0
	12/11/86	0	0	0	0	0	0	0	0	0	0	0
	12/31/86	0	0	0	0	0	0	2	3	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 720	1/06/87	0	0	0	0	0	0	2	3	0	0	0
	1/07/87	0	0	0	0	0	0	6	10	0	15	0
	1/22/87	0	0	0	0	0	0	11	3	0	8	0
	1/23/87											
	1/28/87	0	0	0	0	0	0	3	6	0	6	0
	1/30/87	0	0	0	0	0	0	0	0	0	0	0
	2/04/87	0	0	0	0	0	0	20	6	0	0	1
	2/06/87	0	0	0	0	0	0	3	0	0	0	0
	2/12/87	0	0	0	0	0	0	0	9	0	20	0
	2/23/87						0					
	2/24/87	0	0	0	0	0	0	2	3	0	9	0
	3/04/87	0	0	0	0	0	0	3	20	0	0	0
	3/17/87	0	0	0	0	0	2	9	6	0	16	0
	3/31/87											
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.30	0.46	5.43	0.09	0.72	2.33	35.40	5.73	0.10	3.28	0.43
920	5/15/86						0					
	5/20/86	0	0	0	0	0	4	6	7	0	4	0
	5/22/86	0	0	0	0	0	2	5	65	0	4	0
	5/27/86	0	0	0	0	0	7	5	180	0	8	0
	5/29/86	0	0	27	0	0	21	15	2000	0	11	0
	6/03/86	0	0	0	0	0	6	14	22	0	0	0
	6/05/86	0	0	0	0	0	1	5	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 920	6/10/86	0	0	0	0	0	2	4	0	0	0	0
	6/12/86											
	6/17/86	0	0	0	0	0	8	17	24	0	7	0
	6/20/86	0	0	0	0	0	2	2	4	0	0	0
	6/25/86	0	0	0	0	0	54	22	0	0	2	0
	6/27/86	0	0	6	0	0	2	8	110	0	4	0
	7/03/86	0	0	9	0	0	6	40	203	0	81	0
	7/04/86	0	0	6	0	0	6	23	87	0	7	0
	7/07/86	0	0	0	0	0	0	9	30	0	7	0
	7/10/86	0	0	0	0	0	1	0	0	0	0	0
	7/15/86	0	0	0	0	0	1	8	2250	0	0	0
	7/17/86	0	0	0	0	0	2	9	27	0	9	0
	7/22/86	0	0	0	0	0	4	10	21	0	0	0
	7/24/86	0	0	0	0	0	0	9	15	0	0	0
	7/28/86	0	0	0	0	0	0	4	33	0	0	0
	8/01/86	0	0	0	0	0	0	0	25	0	0	0
	8/06/86											
	8/08/86	0	0	0	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	21	0	0	0
	8/18/86	0	0	0	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0	0	0	0
	8/27/86	0	0	0	0	0	0	3	18	0	0	0
	8/28/86	0	0	0	0	0	0	3	25	0	0	0
	9/03/86	0	0	0	0	0	0	13	30	0	0	0
	9/05/86	0	0	0	0	0	0	0	12	0	0	0
	9/09/86	0	0	3	0	0	1	9	0	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,8-TCT
91 920	9/11/86	0	0	0	0	0	0	10	70	0	0	0
	9/16/86	0	0	0	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	20	260	33	0	0	0
	9/26/86	0	0	0	0	0	0	18	0	0	2	0
	10/03/86	0	0	0	0	0	1	0	30	0	0	0
	10/06/86	0	0	0	0	0	1	15	50	0	0	0
	10/09/86	0	0	0	0	0	0	7	8	0	0	0
	10/15/86	0	0	0	0	0	1	1	4	0	0	0
	10/17/86	0	0	0	0	0	35	22	57	0	13	0
	10/24/86	0	0	0	0	0	5	20	30	0	0	0
	10/28/86	0	0	0	0	0	5	15	21	0	0	0
	10/30/86	0	0	0	0	0	9	24	16	0	0	0
	11/04/86	0	0	0	0	0	0	15	40	0	0	0
	11/06/86	0	0	0	5	0	0	4	50	0	0	0
	11/12/86	0	0	0	3	0	1	4	30	0	0	0
	11/14/86	0	0	0	0	0	290	8	0	0	0	0
	11/20/86	0	0	0	0	0	2	8	0	0	5	0
	11/21/86	0	0	0	0	0	0	5	13	0	0	0
	11/25/86	0	0	0	0	0	2	8	8	0	10	0
	11/28/86	0	0	16	1	0	1	6	0	0	5	0
	12/04/86	0	0	0	0	0	0	1	0	0	0	0
	12/05/86	0	0	0	0	0	10	2	3	0	0	0
	12/10/86	0	0	0	0	0	1	8	60	0	0	0
	12/11/86	0	0	0	0	0	0	5	24	0	0	0
	12/31/86	0	0	0	0	5	1	6	55	0	0	0

OUTFALL	DATE	1,2,3,4-TETRACHLORO-BENZENE	1,2,3,5-TETRACHLORO-BENZENE	1,2,4-TRI-CHLORO-BENZENE	1,2,4,5-TETRA-CHLORO-BENZENE	1,3,5-TRI-CHLORO-BENZENE	HEXACHLORO-BENZENE	HEXACHLORO-BUTADIENE	HEXACHLORO-ETHANE	2,3,6-TRICHLORO-TOLUENE (TCT)	2,4,5-TCT	2,6,a-TCT
91 920	1/06/87	0	0	0	0	0	0	3	0	0	0	0
	1/07/87	0	0	0	0	0	3	6	65	0	42	0
	1/22/87	0	0	9	0	2	3	20	27	0	0	0
	1/23/87											
	1/28/87	0	0	0	0	0	0	0	3	0	0	0
	1/30/87	0	0	0	0	0	2	3	8	0	8	0
	2/04/87	0	0	0	0	2	3	40	55	0	0	0
	2/06/87	0	0	0	0	0	0	6	17	0	0	0
	2/12/87	0	0	0	1	0	1	5	50	0	10	0
	2/23/87	3	0	0	3	0	1	4	40	0	5	0
	2/24/87	0	0	0	0	0	0	2	7	0	5	0
	3/04/87	0	0	0	0	0	0	11	0	0	0	0
	3/17/87	0	0	0	0	0	1	6	3	0	0	0
	3/31/87											
AVG. LOAD (kg/day)		0.000	0.000	0.000	0.000	0.000	0.003	0.005	0.037	0.000	0.001	0.000
AVG. PT. SOURCE CONC'N.		0.04	0.00	1.10	0.19	0.13	7.56	11.90	88.20	0.00	3.61	0.00

APPENDIX 1: TWICE WEEKLY EFFLUENT CONCENTRATIONS/LOADINGS
DOW AND POLYSAR POINT SOURCES MAY,1986 - MARCH,1987
(Units as indicated)

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 220	5/15/86	0	0	0	0	0	0	0	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	0	0	0	3	0	0
	5/29/86						14	4	0
	6/03/86	90536	0	0	0	0	1	0	0
	6/05/86	0	0	0	0	0	4	0	0
	6/10/86						2	0	0
	6/12/86	0	0	0	0	0	7	3	0
	6/17/86	88	0	0	0	0	3	0	0
	6/20/86	0	0	0	0	0	9	2	0
	6/25/86	0	0	0	0	0	2	0	0
	6/27/86	0	0	0	0	0	9	4	0
	7/03/86						0	0	0
	7/04/86	0	0	0	0	0	5	0	0
	7/07/86	0	0	0	0	0	4	0	0
	7/10/86						7	0	0
	7/15/86	0	0	0	0	0	9	0	0
	7/17/86	0	0	0	0	0	7	0	0
	7/22/86	0	0	0	0	0	6	0	0
	7/24/86	0	0	0	0	0	170	45	0
	7/28/86	0	0	0	0	0	21	0	0
	8/01/86	0	0	0	0	0	10	0	0
	8/06/86	0	0	0	0	0			
	8/08/86	0	56	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 220	8/18/86	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	7	0	0	0
	8/27/86	0	0	0	0	0			
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86						2	0	0
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	0	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86	0	0	0	0	0	0	0	0
	9/26/86	0	0	0	0	0	1	0	0
	10/03/86	0	0	0	0	0	0	0	0
	10/06/86						2	0	0
	10/09/86						4	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86	0	0	0	0	0	0	0	0
	10/24/86	0	0	0	0	0	1	0	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	0	1	0	0
	11/04/86	0	0	0	0	0	0	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	6	0	0
	11/14/86	0	0	0	0	0	3	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	0	17
	12/04/86	0	0	0	0	0	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 220	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	0	0	0	0	0	0
	12/11/86	0	0	0	0	2	0	0	0
	12/31/86	68	0	0	0	0	0	0	0
	1/06/87	0	0	0	0	0	0	0	0
	1/07/87	0	0	6	0	0	0	0	0
	1/22/87	312	0	0	0	1	0	0	0
	1/23/87	139	0	0	0	2			
	1/28/87	73	0	0	0	0	0	0	0
	1/30/87	0	0	0	0	0	35	0	0
	2/04/87	11	0	0	0	0			
	2/06/87	0	0	0	0	1	0	0	0
	2/12/87	105	0	0	0	0			
	2/23/87	7	0	0	0	0	0	0	0
	2/24/87	10	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	196	0	0	0	0	0	0	0
	3/31/87	83	0	0	0	0	0	0	0
AVG. LOAD (kg/day)		25.070	0.023	0.002	0.000	0.005	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		1367.58	0.84	0.09	0.00	0.19	5.04	0.84	0.25
620	5/15/86	0	0	0	0	0			
	5/20/86						32	15	0
	5/22/86	0	24	0	0	13	12	4	0
	5/27/86	0	95	0	0	12	23	12	9
	5/29/86	0	0	0	0	0	11	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 620	6/03/86	0	0	0	0	570	5	3	0
	6/05/86	0	0	0	0	0	10	11	0
	6/10/86						5	13	0
	6/12/86	0	0	0	0	1229	18	20	0
	6/17/86	0	0	0	0	2644	9	23	0
	6/20/86	0	459	0	0	240	12	11	6
	6/25/86	0	46	0	0	0	11	0	7
	6/27/86						8	7	0
	7/03/86	0	0	0	0	0	8	0	0
	7/04/86	0	0	0	0	3	9	6	15
	7/07/86	0	51	0	0	0	6	0	6
	7/10/86						10	0	0
	7/15/86	0	0	0	0	47			
	7/17/86						5	0	0
	7/22/86	0	0	0	0	1	19	0	0
	7/24/86	12	4	2	0	4	5	0	0
	7/28/86						16	0	30
	8/01/86	0	38	3	0	64	21	14	0
	8/06/86	0	66	0	0	0			
	8/08/86	0	5	0	0	1	0	28	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	1	0	22	0
	8/18/86	0	0	0	0	20	0	0	0
	8/20/86	0	0	0	0	70	0	0	0
	8/27/86	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0
	9/03/86						0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	0	0	200	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 620	9/16/86	0	0	0	0	47	0	0	0
	9/18/86	0	0	0	0	3	0	0	0
	9/22/86						0	0	0
	9/26/86	0	74	0	0	0	3	4	6
	10/03/86	0	120	0	0	0	6	0	0
	10/06/86	0	0	0	0	0	0	0	0
	10/09/86	0	0	0	0	0	5	0	0
	10/15/86	0	0	0	0	0	2	0	28
	10/17/86	0	0	0	0	0	2	0	0
	10/24/86	0	0	0	0	0	0	0	0
	10/28/86	0	0	0	0	0	0	0	0
	10/30/86	0	0	0	0	10	0	0	0
	11/04/86	0	0	0	0	15	0	0	0
	11/06/86	0	11	0	0	2	0	0	0
	11/12/86	0	44	0	0	0	2	2	4
	11/14/86	0	27	0	0	0	2	0	0
	11/20/86	0	0	0	0	0	1	0	0
	11/21/86	0	0	0	0	2	0	4	0
	11/25/86	0	0	0	0	0			
	11/28/86	0	82	0	0	0	2	0	5
	12/04/86	0	235	0	0	11	2	0	9
	12/05/86	0	0	0	0	219	2	0	0
	12/10/86	0	0	0	0	7	15	15	0
	12/11/86	0	0	0	0	30	0	0	0
	12/31/86	0	0	0	0	1	4	0	0
	1/06/87	0	39	0	0	0	0	0	5
	1/07/87	0	0	0	0	1	0	0	0
	1/22/87						2	12	0
	1/23/87	0	22	0	0	1			

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
3 620	1/28/87	0	86	0	0	0	2	17	27
	1/30/87	0	27	0	0	0	1	12	0
	2/04/87	0	0	0	0	42			
	2/06/87	0	0	0	0	35	3	0	0
	2/12/87	21	0	0	0	119	0	10	0
	2/23/87	0	0	0	0	35	0	18	0
	2/24/87	0	0	0	0	54	0	6	0
	3/04/87	0	0	0	0	10	0	0	0
	3/17/87	0	31	0	0	10	8	0	0
	3/31/87	0	0	0	12	7	4	0	7
AVG. LOAD (kg/day)		0.005	0.219	0.001	0.002	0.843	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.52	24.78	0.08	0.19	90.31	4.75	4.25	2.41
15	7 5/15/86	0	0	2	0	0			
	5/20/86	0	1	0	0	11	0	0	0
	5/22/86	0	0	0	0	2	5	5	0
	5/27/86	0	12	0	0	3	32	6	0
	5/29/86	0	0	0	0	0	5	4	0
	6/03/86	0	0	0	0	35	3	3	0
	6/05/86	0	0	0	0	0	6	6	0
	6/10/86								
	6/12/86	0	0	0	0	19	3910	3240	10
	6/17/86	0	0	0	0	300	0	0	0
	6/20/86	0	0	0	0	0			
	6/25/86	0	0	0	0	0			
	6/27/86	0	3	0	0	0	5	7	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
15 7	7/03/86	0	2	0	0	1	37	6	0
	7/04/86	0	6	0	0	0	9	3	0
	7/07/86	0	3	0	0	1	13	7	0
	7/10/86	0	9	0	0	2	7	0	0
	7/15/86	0	0	0	0	7	26	23	0
	7/17/86	0	0	0	0	4	13	8	0
	7/22/86	0	0	0	0	0	9	12	0
	7/24/86						11	9	0
	7/28/86	0	0	0	0	0	16	11	0
	8/01/86	0	6	0	0	9	0	0	0
	8/06/86	0	4	0	0	1	5	7	0
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	12	0	0	0	0	2	0
	8/15/86						0	0	0
	8/18/86	0	0	0	0	2	0	0	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	2	0	0	3	0	0	0
	8/28/86	0	0	0	0	1	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86						5	5	0
	9/11/86	0	0	0	0	14	0	7	0
	9/16/86	0	0	0	0	3	0	32	0
	9/18/86	0	0	0	0	3	0	6	0
	9/22/86	0	0	0	0	0	0	715	0
	9/26/86	0	6	0	0	2	16	30	0
	10/03/86	0	10	0	0	0	14	35	0
	10/06/86						310	230	7000
	10/09/86	0	0	0	0	0	7	4	0
	10/15/86	0	0	0	0	0	11	11	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
15 7	10/17/86	0	0	0	0	0	4	2	0
	10/24/86						2	0	0
	10/28/86	0	0	0	0	6	5	3	0
	10/30/86	0	0	0	0	6	3	0	0
	11/04/86	0	0	0	0	7	6	0	0
	11/06/86	0	1	1	0	0	0	0	0
	11/12/86	0	4	0	0	0	7	0	0
	11/14/86	0	3	0	0	6	5	0	0
	11/20/86	0	0	0	0	0	2	2	0
	11/21/86	0	0	0	0	5	3	1	0
	11/25/86	0	0	0	0	3	3	0	0
	11/28/86	0	9	1	0	0	6	9	0
	12/04/86	0	17	0	0	1	10	3	0
	12/05/86						5	3	0
	12/10/86	0	0	0	0	0	0	0	0
	12/11/86						11	7	0
	12/31/86	0	13	0	0	6	0	0	2
	1/06/87						0	0	0
	1/07/87	0	1	0	0	0	5	13	0
	1/22/87	2	0	0	0	4			
	1/23/87								
	1/28/87	0	0	0	0	0	11	0	0
	1/30/87	0	0	0	0	28	3	0	0
	2/04/87	0	0	0	0	16	10	30	0
	2/06/87	0	0	0	0	10	0	0	0
	2/23/87	0	0	0	0	5	4	10	0
	2/24/87	0	0	0	0	1	7	8	0
	3/04/87	0	0	0	0	8	10	10	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
15 7	3/17/87	0	3	0	0	4	3	5	0
	3/31/87	0	0	0	0	0	14	30	0
AVG. LOAD (kg/day)		0.004	0.252	0.008	0.000	1.071	0.009	0.009	0.014
AVG. PT. SOURCE CONC'N.		0.03	2.02	0.06	0.00	8.56	68.87	68.21	104.66
91 220	5/15/86	0	0	13	0	0			
	5/20/86	0	0	0	0	3	134	25	0
	5/22/86	0	0	0	0	2	41	12	0
	5/27/86	0	0	0	0	4	53	22	0
	5/29/86						33	11	0
	6/03/86	109	0	6	0	3	300	36	0
	6/05/86	0	0	0	0	0	42	10	0
	6/10/86						51	0	0
	6/12/86	1	0	0	0	4	170	72	0
	6/17/86	0	0	34	0	3	65	33	0
	6/20/86	0	0	0	0	3	70	22	4
	6/25/86	0	0	20	0	3	40	0	0
	6/27/86	0	0	12	0	3	41	13	0
	7/03/86						41	16	6
	7/04/86	0	7	16	0	2	38	15	0
	7/07/86	2	0	0	0	2	59	23	7
	7/10/86						80	12	0
	7/15/86	0	0	9	0	2	42	11	5
	7/17/86	2	0	27	0	3	320	120	9
	7/22/86	1	0	10	0	3	40	0	4
	7/24/86	0	0	0	0	0	0	0	0
	7/28/86						40	10	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 220	8/01/86	2	0	12	0	2	33	6	0
	8/06/86	0	0	18	0	2			
	8/08/86	0	0	17	0	3	0	0	0
	8/11/86	0	0	8	0	0	15	0	0
	8/15/86						0	0	0
	8/18/86	0	0	12	0	3	0	0	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	0	29	79	3	0	0	0
	8/28/86	0	0	14	0	3	0	0	0
	9/03/86	0	0	7	0	0	0	0	0
	9/05/86	0	0	9	0	2	0	0	0
	9/09/86						22	6	0
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	0	25	0	4	0	0	0
	9/18/86	0	0	9	0	2	0	0	0
	9/22/86	0	0	23	0	5	0	0	0
	9/26/86	0	3	23	0	3	10	15	0
	10/03/86	0	3	355	0	6	56	24	0
	10/06/86	0	0	274	0	2	25	5	0
	10/09/86						20	6	0
	10/15/86	0	0	9	0	1			
	10/17/86	0	0	21	0	1	30	6	0
	10/24/86	0	0	54	0	2	30	6	0
	10/28/86	0	0	18	0	2	70	15	0
	10/30/86	0	0	15	0	2	60	15	0
	11/04/86	0	0	11	0	2	25	4	0
	11/06/86	0	0	14	0	2	20	0	0
	11/12/86	0	0	3	8	2	13	2	0
	11/14/86	0	0	487	0	6	140	20	0
	11/20/86	0	0	9	0	0	50	4	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 220	11/21/86	0	0	13	0	3	350	7	0
	11/25/86	0	0	11	0	1	40	4	0
	11/28/86	0	0	11	0	0	38	10	0
	12/04/86						0	0	0
	12/05/86	0	0	16	0	2	20	0	0
	12/10/86	0	0	15	0	3	70	45	10
	12/11/86	0	0	23	0	2	45	5	0
	12/31/86	0	0	17	0	1	24	3	0
	1/06/87	23	0	1326	0	2	30	3	0
	1/07/87	0	0	0	0	0	0	0	0
	1/22/87								
	1/23/87								
	1/28/87	2	0	10	0	0	75	10	0
	1/30/87	1	0	10	0	0	70	2	0
	2/04/87	0	0	8	0	1	20	0	0
	2/06/87	0	0	8	0	1	25	2	0
	2/12/87	0	0	9	0	1	125	20	6
	2/23/87	2	0	5	0	0	33	50	0
	2/24/87	0	0	6	0	1	120	20	0
	3/04/87	3	0	9	0	0	50	10	0
	3/17/87						70	13	0
	3/31/87						35	7	0
AVG. LOAD (kg/day)		0.126	0.010	2.573	0.069	0.098	0.003	0.001	0.000
AVG. PT. SOURCE CONC'N.		2.43	0.21	51.15	1.43	1.93	51.58	11.71	0.74
320	5/15/86	0	0	0	0	0			

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 320	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	0	0	0	0	0	0	0
	5/27/86	0	0	0	0	0	0	0	0
	5/29/86						0	0	0
	6/03/86	4	0	0	0	0	3	0	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86						0	0	0
	6/12/86	0	0	0	0	0	93	47	0
	6/17/86	0	0	2	0	0	1	0	0
	6/20/86	2	0	7	0	3	2	0	0
	6/25/86	0	0	0	0	0	0	0	0
	6/27/86	0	0	0	0	0	0	0	0
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	0	0	0	0	0	0
	7/07/86	0	0	0	0	0	0	0	0
	7/10/86						0	0	0
	7/15/86	0	0	3	0	0	0	0	0
	7/17/86	0	0	3	0	0	0	0	0
	7/22/86	0	0	0	0	0	0	0	0
	7/24/86	0	0	10	0	2	0	0	0
	7/28/86	0	0	0	0	0	0	0	0
	8/01/86	0	0	6	0	0	0	0	0
	8/06/86	0	0	0	0	0			
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86						0	0	0
	8/18/86	0	0	0	0	0	0	0	0
	8/20/86	0	0	12	0	3	0	0	0
	8/27/86	0	0	0	0	0	0	0	0
	8/28/86	0	0	0	0	0	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 320	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	0	0	0	0	0	0
	9/16/86	0	2	0	0	0	0	0	0
	9/18/86	0	0	0	0	0	0	0	0
	9/22/86						0	25	0
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	0	0	0	0	0	0
	10/06/86	0	0	0	0	0	0	0	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	0	0	0	0
	10/17/86						2	0	0
	10/24/86	0	0	0	0	0	0	0	0
	10/28/86	0	0	0	0	1	0	0	0
	10/30/86	0	0	0	0	0	0	0	0
	11/04/86	0	0	0	0	0	2	0	0
	11/06/86	0	0	0	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	0	0	0	0	0	0
	12/04/86						0	0	0
	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	0	0	0	35	0	0
	12/11/86						1	5	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 320	12/31/86	0	0	0	0	0	0	0	0
	1/06/87	0	0	4	0	0	0	0	0
	1/07/87	0	0	3	0	0	0	0	0
	1/22/87						0	0	0
	1/23/87								
	1/28/87	4	0	0	0	0	5	0	0
	1/30/87	0	0	3	0	0	8	0	0
	2/04/87	0	0	0	0	0	5	0	0
	2/06/87	0	0	0	0	0	0	0	0
	2/12/87	0	0	0	0	0			
	2/23/87	0	0	0	0	0	0	0	0
	2/24/87	0	0	0	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87						0	0	0
	3/31/87	18	0	0	0	0	0	0	0
AVG. LOAD (kg/day)		0.021	0.001	0.041	0.000	0.007	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.45	0.03	0.85	0.00	0.15	2.24	1.10	0.00
520	5/15/86	1	29	1	0	4			
	5/20/86						1	0	0
	5/22/86	0	0	87	0	2	0	0	0
	5/27/86	0	0	66	0	2	0	2	0
	5/29/86						0	0	0
	6/03/86	2	0	19	0	3	2	0	0
	6/05/86	0	0	0	0	0	1	0	0
	6/10/86						0	0	0
	6/12/86	0	0	0	0	2	53	33	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 520	6/17/86	0	0	34	0	2	2	0	0
	6/20/86	0	0	0	0	0	5	0	0
	6/25/86	0	0	32	0	2	11	0	0
	6/27/86						0	0	0
	7/03/86	0	0	0	0	2	2	0	0
	7/04/86	1	0	34	0	3	0	0	0
	7/07/86	0	0	0	0	2	0	0	0
	7/10/86						0	0	0
	7/15/86	8	0	4	0	2	0	0	0
	7/17/86	2	2	15	0	3	3	0	0
	7/22/86	2	0	19	0	3	2	0	0
	7/24/86	0	0	1	0	0	0	0	0
	7/28/86						0	0	0
	8/01/86	2	3	13	0	3	0	0	0
	8/06/86	0	0	15	0	1			
	8/08/86	0	0	39	0	3	0	0	0
	8/11/86	0	6	21	0	2	0	0	0
	8/15/86						0	0	0
	8/18/86	0	0	13	0	1	0	0	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	3	18	0	1	0	0	0
	8/28/86	0	0	9	0	0	0	0	0
	9/03/86	0	7	2	0	0	0	0	0
	9/05/86	0	0	6	0	1	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	0	0	1	2	0	0
	9/16/86	0	0	5	0	0	0	0	0
	9/18/86	0	0	7	0	0	0	0	0
	9/22/86	0	0	4	0	0	0	22	0
	9/26/86	0	0	5	0	0	1	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 520	10/03/86	0	0	13	0	0	0	0	0
	10/06/86	0	0	22	0	1	0	0	0
	10/09/86	0	0	13	0	1	0	0	0
	10/15/86	0	0	28	0	1	13	0	0
	10/17/86	0	0	9	0	0	0	0	0
	10/24/86	0	0	14	0	1	2	0	0
	10/28/86	0	0	8	0	1	0	0	0
	10/30/86	0	0	9	0	0	0	0	0
	11/04/86	0	0	16	0	0	3	6	0
	11/06/86	0	0	9	0	1	0	0	0
	11/12/86	0	0	1	0	0	0	0	0
	11/14/86	0	0	7	0	0		0	0
	11/20/86	0	11	5	0	2	0	0	0
	11/21/86	0	0	9	0	1	0	0	0
	11/25/86	0	0	12	0	0	0	0	0
	11/28/86	0	0	1	0	0	0	0	0
	12/04/86	0	0	16	0	1	0	0	0
	12/05/86	0	0	9	0	1	0	0	0
	12/10/86	0	0	15	0	1	0	0	0
	12/11/86	0	0	15	0	1	1	0	0
	12/31/86	0	0	8	0	0	0	0	0
	1/07/87	0	0	6	0	0	0	0	0
	1/22/87	3	13	7	0	2			
	1/23/87						0	0	0
	1/28/87	7	0	8	0	1	8	0	0
	1/30/87	0	0	11	0	1	0	0	0
	2/04/87	0	0	3	0	1			
	2/06/87	0	0	10	0	0	1	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 520	2/12/87	0	0	10	0	0	0	0	0
	2/23/87	3	0	3	0	3	0	0	0
	2/24/87	0	0	3	0	1	0	3	0
	3/04/87	0	0	53	0	1	0	0	0
	3/17/87	10	0	3	0	1	0	0	0
	3/31/87	11	0	4	0	0			
AVG. LOAD (kg/day)		0.019	0.032	0.358	0.000	0.029	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.81	1.16	12.95	0.00	1.08	1.69	0.97	0.00
620	6/27/86						4	0	0
	7/03/86	0	0	0	0	0	0	0	0
	7/04/86	0	0	7	0	0	0	0	0
	7/07/86	0	0	0	1	0	0	0	0
	7/10/86						0	0	0
	7/15/86	0	0	10	0	0	0	0	0
	7/17/86	0	0	8	0	0	2	0	7
	7/22/86	0	0	0	0	0	2	0	0
	7/24/86	1	0	0	0	2	0	0	0
	7/28/86						3	0	0
	8/01/86	0	0	7	0	0	0	0	0
	8/06/86	0	0	2	0	0			
	8/08/86	0	0	4	0	0	0	0	0
	8/11/86	0	0	2	0	0	0	0	0
	8/15/86						0	0	0
	8/18/86	0	0	6	0	0	0	0	0
	8/20/86	0	0	4	0	0	0	0	0
	8/27/86	0	0	4	0	0	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 620	8/28/86	0	0	2	0	1	0	0	0
	9/03/86	0	0	2	0	0	0	0	0
	9/05/86	0	0	0	0	0	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	12	0	0	2	0	0
	9/16/86	0	0	0	0	0	0	0	0
	9/18/86	0	0	3	0	0	0	0	0
	9/22/86	0	0	16	0	2	0	12	0
	9/26/86	0	0	5	0	0	10	0	0
	10/03/86	0	0	6	0	0	4	0	0
	10/06/86	0	0	4	0	0	0	0	0
	10/09/86	0	0	5	0	1			
	10/15/86	0	0	5	0	0			
	10/17/86	0	0	3	0	0	2	0	0
	10/24/86	0	0	6	0	0	0	0	0
	10/28/86	0	0	4	0	0	0	0	0
	10/30/86	1	0	2	0	0	0	0	0
	11/04/86	0	0	2	0	0	0	0	0
	11/06/86	0	0	2	0	0	0	0	0
	11/12/86	0	3	0	0	0	0	0	0
	11/14/86	0	0	1	0	0	0	0	0
	11/20/86	0	0	1	0	0	0	0	0
	11/21/86	0	0	0	0	0	0	0	0
	11/25/86	0	0	3	0	0	6	0	0
	11/28/86	0	0	2	0	0	0	0	4
	12/04/86	0	0	6	0	0	230	70	8
	12/05/86	0	0	9	0	0	0	0	0
	12/10/86	0	0	2	0	0	0	0	0
	12/11/86	0	0	4	0	0	1	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 620	12/31/86	0	0	4	0	0	0	0	0
	1/06/87	0	0	3	0	0	0	0	0
	1/07/87	0	0	3	0	0	0	0	0
	1/22/87								
	1/23/87	0	0	2	0	0			
	1/28/87	4	0	3	0	1	10	0	0
	1/30/87	0	0	4	0	0	0	0	0
	2/04/87	0	0	0	0	0			
	2/06/87	0	0	3	0	0	0	0	0
	2/12/87	2	0	3	0	0	2	1	10
	2/23/87	2	0	1	0	0	0	0	0
	2/24/87	0	0	1	0	0	0	0	0
	3/04/87	0	0	2	0	0	0	0	0
	3/17/87	7	0	2	0	1	0	0	0
	3/31/87	8	0	1	0	11			
AVG. LOAD (kg/day)		0.025	0.003	0.186	0.001	0.019	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		0.45	0.05	3.45	0.02	0.34	5.05	1.51	0.53
720	5/15/86	0	0	2	0	0	0	0	0
	5/20/86	0	0	0	0	0	0	0	0
	5/22/86	0	0	0	0	4	0	0	0
	5/27/86	1	0	2	0	2	0	0	0
	5/29/86						30	25	31
	6/03/86	0	0	2	0	0	1	0	4
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86						0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 720	6/12/86	0	0	0	0	0	79	56	0
	6/17/86	253	0	0	0	0	1	0	0
	6/20/86	0	0	0	0	0	2	0	0
	6/25/86	0	0	0	0	0	1	0	0
	6/27/86	0	0	2	0	0	0	0	0
	7/03/86	0	0	0	0	0			
	7/04/86	0	0	7	0	0	0	0	0
	7/07/86	0	0	0	1	3	0	0	0
	7/10/86						17	0	0
	7/15/86	0	0	0	0	1	0	0	0
	7/17/86	0	0	10	0	0	0	0	0
	7/22/86	0	0	0	0	0	3	0	7
	7/24/86	0	0	0	0	0	0	0	0
	7/28/86						0	0	0
	8/01/86	6	0	0	0	0	0	0	0
	8/06/86	0	0	1	0	0			
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	2	0	0	0	0	0
	8/15/86						0	0	0
	8/18/86	0	0	3	0	0	0	0	0
	8/20/86	0	0	3	0	0	0	0	0
	8/27/86	0	0	5	0	0	0	0	0
	8/28/86	0	0	3	0	0			
	9/03/86	0	0	3	0	0	0	0	0
	9/05/86	0	0	3	0	0	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	4	0	0	0	0	0
	9/16/86	0	0	3	0	0	0	0	0
	9/18/86	0	0	3	0	0	0	0	0
	9/22/86	0	0	13	0	0	0	16	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 720	9/26/86	0	0	2	0	0	0	0	0
	10/03/86	0	0	5	0	1	0	0	0
	10/06/86	0	0	7	0	0	0	0	0
	10/09/86	0	0	4	0	0			
	10/15/86	0	0	3	0	0	0	0	0
	10/17/86	0	0	6	0	0	0	0	0
	10/24/86	0	0	20	0	1	0	0	0
	10/28/86	0	0	2	0	0	0	0	0
	10/30/86	0	0	2	0	0	0	0	0
	11/04/86	0	0	6	0	0	0	0	0
	11/06/86	0	0	4	0	0	0	0	0
	11/12/86	0	0	4	0	0	0	0	0
	11/14/86						1	0	0
	11/20/86						0	0	0
	11/21/86	0	0	3	0	0	0	0	0
	11/25/86	0	0	3	0	0	0	0	0
	11/28/86	1	0	0	0	3	0	0	0
	12/04/86	0	0	13	0	0	0	0	0
	12/05/86	0	0	0	0	0	0	0	0
	12/10/86	0	0	5	0	0	0	0	0
	12/11/86	0	0	7	0	0	1	0	0
	12/31/86	4	0	4	61	2	0	0	0
	1/06/87						0	0	0
	1/07/87	0	0	3	0	0	0	0	0
	1/22/87	5	0	4	0	0	3	0	0
	1/23/87	5	0	3	0	0			
	1/28/87	14	0	5	0	1	9	0	0
	1/30/87	10	0	5	0	3	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 720	2/04/87	2	0	2	0	0	0	0	0
	2/06/87	0	0	5	0	0	0	0	0
	2/12/87	3	0	9	0	0	1	0	12
	2/23/87	2	0	1	0	0			
	2/24/87	2	0	1	0	0	0	0	0
	3/04/87	6	0	19	0	1	0	0	0
	3/17/87	7	0	2	0	0	0	0	0
	3/31/87	9	0	4	0	4			
AVG. LOAD (kg/day)		0.269	0.000	0.253	0.071	0.031	0.000	0.000	0.000
AVG. PT. SOURCE CONC'N.		5.08	0.00	3.60	0.95	0.40	2.22	1.45	0.81
920	5/15/86	0	0	0	0	0			
	5/2 86	0	0	0	0	0	1	0	0
	5/22/86						0	0	0
	5/27/86	0	0	9	0	0	2	0	0
	5/29/86						8	4	0
	6/03/86	0	0	19	0	0	1	0	0
	6/05/86	0	0	0	0	0	0	0	0
	6/10/86						0	0	0
	6/12/86	3	0	0	0	3			
	6/17/86	0	0	0	0	0	2	0	0
	6/20/86	11	0	0	0	0	2	0	0
	6/25/86	0	0	0	0	0	9	3	0
	6/27/86						0	0	0
	7/03/86	0	1	0	0	4	2	0	0
	7/04/86	0	0	0	0	0	2	2	0
	7/07/86	0	0	0	1	0	3	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 920	7/10/86						2	0	0
	7/15/86	0	0	3	0	0	0	0	0
	7/17/86	0	0	4	0	2	0	0	0
	7/22/86	0	0	0	0	0	4	0	0
	7/24/86	0	0	0	0	1	0	0	0
	7/28/86						0	0	0
	8/01/86	0	2	5	0	1	0	0	0
	8/06/86	0	0	0	0	0			
	8/08/86	0	0	0	0	0	0	0	0
	8/11/86	0	0	0	0	0	0	0	0
	8/15/86	0	0	0	0	0	0	0	0
	8/18/86	0	0	0	0	0	0	0	0
	8/20/86	0	0	0	0	0	0	0	0
	8/27/86	0	0	8	0	0	0	0	0
	8/28/86	0	0	3	0	0	0	0	0
	9/03/86	0	0	0	0	0	0	0	0
	9/05/86	0	1	0	3	0	0	0	0
	9/09/86						0	0	0
	9/11/86	0	0	0	0	1	0	0	0
	9/16/86	0	2	0	0	1	0	0	0
	9/18/86	0	0	1	0	2	0	0	0
	9/22/86	0	0	3	0	0	0	10	0
	9/26/86	0	0	0	0	0	0	0	0
	10/03/86	0	0	0	0	0	0	0	10
	10/06/86	0	0	1	0	0	0	0	0
	10/09/86	0	0	0	0	0	0	0	0
	10/15/86	0	0	0	0	1	1	0	0
	10/17/86						41	0	0
	10/24/86	0	0	2	0	0	0	0	0
	10/28/86	0	0	0	0	0	0	0	0

OUTFALL	DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
91 920	10/30/86	0	0	0	0	1	0	0	0
	11/04/86	0	0	28	0	0	0	0	0
	11/06/86	0	0	2	0	0	0	0	0
	11/12/86	0	0	0	0	0	0	0	0
	11/14/86	0	0	0	0	0	0	0	0
	11/20/86	0	0	0	0	0	0	0	0
	11/21/86	0	0	2	0	2	0	0	0
	11/25/86	0	0	0	0	0	0	0	0
	11/28/86	0	0	2	0	0	0	0	0
	12/04/86						0	0	0
	12/05/86						0	0	0
	12/10/86	0	0	3	0	0	0	0	0
	12/11/86	0	0	1	0	0	1	0	0
	12/31/86	0	0	2	0	0	0	0	0
	1/06/87						0	0	0
	1/07/87	0	0	0	0	0	0	0	0
	1/22/87	2	0	7	0	3	2	0	0
	1/23/87								
	1/28/87	1	0	1	0	1	1	0	0
	1/30/87	0	0	1	0	0	0	0	0
	2/04/87	0	0	0	0	0	1	0	0
	2/06/87	0	0	1	0	0	0	0	0
	2/12/87	0	0	0	0	0	0	0	0
	2/23/87	0	0	0	0	0	3	0	0
	2/24/87	0	0	1	0	0	0	0	0
	3/04/87	0	0	0	0	0	0	0	0
	3/17/87	5	0	0	0	0	0	0	0
	3/31/87	4	0	1	0	5			

OUTFALL DATE	BENZENE ug/L	BROMOFORM ug/L	CARBON TETRACHLORIDE ug/L	CHLOROBENZENE ug/L	CHLOROFORM ng/L	OCTACHLORO-STYRENE ng/L	PENTACHLOR-OBENZENE ng/L	1,2,3 TRICHLO-ROBENZE
AVG. LOAD (kg/day)	0.167	0.031	0.675	0.020	0.153	0.001	0.000	0.000
AVG. PT. SOURCE CONC'N.	0.42	0.10	1.77	0.06	0.45	1.28	0.28	0.14

APPENDIX 2

GC/MS RESULTS FOR
CONTAMINANTS MEASURED ON SUSPENDED
SOLIDS FROM EFFLUENT STREAMS.

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER CENTRIFUGED SOLIDS (EFFLUENT) ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

PARAMETER	Field Sample #	50272	50347	51649	50273	50348	51650	50270	50349	51651	50237	51652	5027[illegible]	50346	8382
	Station - Dist from CDN Shore		Dow 1st St 42'			Dow 1st St 48'			Dow 1st St 54		Dow 3rd St			Dow 4th St	
	Date	860516	860710	861013	860516	860710	861013	860516	860710	861013	860514	861013	860516	860710	[illegible]
	Depth														
1,1,1-Trichloroethane		ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichlorethylene		ND	*	ND	ND	ND	ND	ND	ND	ND	94	ND	ND	ND	ND
1,1-Dichloroethane		29	ND	100	ND	ND	ND	ND	ND	37	ND	ND	ND	ND	ND
1,2-Dibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene/Phenanthrene		-	-	-	-	-	-	-	-	-	-	-	-		-
Benzene		8.2	19	22	9.3	15	23	24	12	26	31	23	21	11	22
Benzo(a)anthracene/Chrysene		-	-	-	-	-	-	-	-	-	-	-	-		-
Benzo(a)pyrene/Benzo(k) - fluoranthene/Perylene		-	-	-	-	-	-	-	-	-	-		-	-	-
Biphenyl		ND	ND	-	46	22	-	ND	ND	-	46	-	64	ND	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (EFFLUENT) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	5U272	5U347	51649	5U273	5U348	51650	5U274	5U349	51651	5U275	51652	5U276	5U345	1652
	Station - Dist from CDN Shore		UOW 1ST ST 47			UOW 1ST ST 48			UOW 1ST ST 54			UOW 3RD ST		UOW 4TH ST	
PARAMETER	Date Depth	88U516	88U710	881013	88U516	88U710	881013	88U516	88U710	881013	88U514	881013	88U516	88U710	881U0
Bromoform		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Carbontetrachloride		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Chlorinated Unknown		-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene		5 U	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	2 U	NU	NU
Chlorodibromomethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Chloroform		22	25	12	11	NU	24	36	29	NU	20	11	32	25	224
1,2-Dichlorobenzene		-	-	-	-	-	-	-	-	-	-				
Dichlorobromomethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Dimethyl Disulfide		-	130	520	-	81	160	-	48	230		320		NU	1200
Dimethyl Naphthalene		-	-	-	-		-	-	-	-	-	-		-	
Dimethyl Sulfide		-	110	250	-	1800	4100	-	340	520	-	1600		2700	1100
Dimethyl Trisulfide		-	-	70	-	-	NU	-	-	NU		NU	-	-	-
Diphenyl ether		NU	NU	-	NU	49	-	NU	NU	-	121		110	NU	
Ethylbenzene		NU	NU	NU	1 J	NU	NU	NU	NU	NU	89	NU	5	25	-
Fluoranthene		-		-	-	-	-	-	-		-				

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER CHEMICFLUENT SOLIDS (EFFLUENT) ng/g
Analysis Performed By GC/MS Volatile Scan Unless Indicated By (* - Extractable Scan)

	Field Sample #	302712	303447	316849	302713	303448	316850	302710	303449	316851	302711	316852	302711	303450	188362
	Station - Dist From CAN Shore		00W 1st St 42'			00W 1st St 48'			00W 1st St 54		00W 3rd St			00W 4th St	
PARAMETER	Date Depth	880318	880710	881013	880318	880710	881013	880318	880710	881013	880318	881013	880318	880710	881000
heptachlorostyrene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
hexachlorobenzene		-	ND	ND	-	210	49	-	40	ND	-	ND	-	ND	-
hexachlorobutadiene		1970	3200	8400	230	90	190	99	240	57	100	190	130	240	52
hexachlorobutene		-	89	-	-	ND	-	-	ND	-	-	-	-	ND	-
hexachloroethane		-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,3-trichlorobutene		TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
1,3 bromochloromethane		TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
isobutylnaphthalene		ND	-	-	ND	-	-	ND	-	-	-	-	ND	-	-
Methyl benzo(e)anthracene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl biphenyl		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl fluoranthene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl naphthalene		ND	-	-	ND	-	-	20	-	-	-	-	ND	-	-
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		ND	-	-	29	-	-	ND	-	-	-	-	ND	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER DEMONSTRATED SOLIDS (EFFLUENT) (UG/G
Analysis Performed By GC/MS Volatile Scan Unless Indicated By (* - Extractable Scan)

	Field Sample #	SU212	SU247	SIB49	SU213	SU348	SIB50	SU210	SU349	SIB51	SU351	SIB52	SU211	SU345	SIB53
	Station - Dist from GLH Shore		UDW 1ST ST	4Z		UDW 1ST ST	4S		UDW 1ST ST	3A		UDW 3RD ST		UDW 4TH ST	
PARAMETER	Date Depth	880518	880710	881013	880518	880710	881013	880518	880710	881013	880814	881013	880710	881013	
Octachlorocyclopentane		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorostyrene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
O- Or P-Xylene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Pentachlorobenzene		-	NU	NU	-	NU	94	-	NU	NU	-	NU		NL	-
Pentachlorobutadiene		200 (3)	1200 (4)	1900 (4)	+ (3)	NU	41	NU	NU	NU	-	NU	NL	NL	
Pentachlorobutene		-	-	-	-	-	-			-	-				
Pentachlorocyclopropane		22			34		-	NU		-	-		NL		
Pyrene		-		-									-	-	-
Styrene				+											
Tetrachlorobenzene		24	30	100	NU	NU	NU	NU	NU	NU			NL	NU	NL
Tetrachlorobutadiene		440 (2)	2200 (4)	3200 (5)	+	NU	NU	NL	NU	NU			NL	NU	NU
Tetrachloroethylene		330	1200	2800	180	6.4	27	84	31	64	64		46	40	48
Tetrafluorodichloropropane		-	-	44	-	-	NU	-		NU			NU	-	
Trichlorobutadiene		31 (2)	410 (3)	220 (2)	NU	NU	NU	NU	NU	NU			NU	NU	NU
Trichloroethylene		NU	NU	NU	NU	NU	NU	NL	NU	NU	NU		NL	NU	NL

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENT-PORE SOLIDS (EFFLUENT) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	5U272	5U347	51b49	5U273	5U348	51b50	5U270	5U349	51b51	5U237	51b52	5U2[illegible]	51b48	18382
	Station - Dist from DUM Shore		DDW 1st St 42			DDW 1st St 48			DDW 1st St 54		DDW 3rd St			DDW 4th St	
PARAMETER	Date / Depth	88U516	88U710	881013	88U516	88U710	881013	88U516	88U710	881013	88U514	881013	88U516	88U710	881007
Trichlorobenzene		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene		NU	NU	NU	NU	NU	350	NU	NU	1300	11	190	NU	NU	NU

Legend
- compound not listed on data report
NU compound listed but not detected
TR trace amount
* Result from analysis by GC/MS extractable method
MDL Typically 1 ng/g
NA Not Analyzed
+ Present not quantitated (interferences present)
(#) Number of compounds

SUMMARY OF VOLATILE RESULTS FROM 1986 DI CLARK RIVER SEDIMENT SURVEY (PERTH AMBOY)
Analysis Performed By UC/MA Volatile Scan Unless Indicated By (* = extractable scan)

	Field Sample #	86J29	86J33	86J30	86J34	86J28	86J35	86J31
	Station # Dist From Low Shore	Cole Drain		B10*			Polysar	
PARAMETER	Date / Depth	860515	860605	860716	860605	860515	860515	860
1,1,1-Trichloroethane		NU	NU	NU	NU	NU	NU	NU
1,1,2,2-Tetrachloroethane		NU	NU	NU	NU	NU	NU	NU
1,1,2-Trichloroethane		NU	NU	NU	NU	NU	NU	NU
1,1-Dichloroethylene		NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethane		NU	NU	NU	NU	NU	NU	NU
1,2-Dibromomethane		NU	NU	NU	NU	NU	NU	NU
1,2-Dichlorobenzene		NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethane		NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethylene			–	–			–	
1,2-Dichloropropane		NU	NU	NU	NU	NU	NU	NU
Anthracene/Phenanthrene			–	–			–	
Benzene		47	18	NU	18	19	11	18
Benzo(a)anthracene/Chrysene			–					
Benzo(a)pyrene/Benzo(k) + Fluoranthene/Perylene								
Biphenyl		NU			–	NU		

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (EFFLUENT) ng/g
Analysis Performed By GC/MS Volatile Scan unless indicated By (* - Extractable Scan)

	Field Sample #	SD259	SD273	SD370	SD374	SD269	SD369	10360
	Station - Dist From CWM Shore	Cole Drain		Block			Polyser #2	
PARAMETER	Date / Depth	88DD11	88100S	88DF1N	88100S	88DS16	88DF0B	88100F
Bromoform		ND	ND	ND	ND	ND	ND	ND
Carbontetrachloride		ND	ND	ND	ND	ND	ND	ND
Chlorinated Unknown		-	-	-	-	-	-	-
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	220	85	43	62	ND	78
o Dichlorobenzene		-	-	-	-	-	-	-
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND
Dimethyl Disulfide		-	54	1200	940	-	180	380
Dimethyl Naphtalene		-	-	-	-	-	-	-
Dimethyl Sulfide		-	320	190	160	-	1200	240
Dimethyl Trisulfide		-	-	-	-	-	-	-
Diphenyl ether		ND	-	-	-	ND	-	-
Ethylbenzene		8.4	ND	ND	1.5	ND	ND	8.0
Fluoranthene		-	-	-	-	-	-	-

SUMMARY OF VOLATILE REDUCED FROM 1988 SF CLAIR RIVER (ENNISKILLEN SUITES - EFFLUENT) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	SU259	SU273	SU310	SU314	SU409	SU369	[illegible]
	Station - Dist from LWM shore		Lake drain				Polysar #2	
PARAMETER	Date / Depth	88US3	88JUN5	88JUN8	88JUN5	88US18	88JUN8	88
Heptachlorostyrene						-		
Hexachlorobenzene		-	-		-			
Hexachlorobutadiene		.10	970U	NU	NU	4b2	1UU5	48
Hexachlorobutene				-	-			
Hexachloroethane		-		-		-		
1,3 Dichlorobutane		1K	1K	1K	1K	1N	1N	1K
1,3 bromochloroethane		1K	1K	1K	1K	1N	1K	1K
Isobutylnaphthalene		-		-		NU	-	
Methyl benzo(a)anthracene				-				
Methyl biphenyl		NU	-		-			
Methyl fluoranthene			-					
Methyl naphthalene		NU				NU		
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA
m Xylene		NU	NU	NU	NU	NU	NU	NU
Naphthalene						NU		

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTBED SOLIDS (EFFLUENT) ng/g
Analysis performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

	Field Sample #	SD229	SD233	SD310	SD314	SD209	SD304	TB381
	Station - Dist from CWM shore	Cole Drain		B10A			Polyser Tr	
PARAMETER	Date / Depth	880311	880405	880413	880503	880518	880606	880607
Octachlorocyclopentane		-	-	-	-	-	-	-
Octachlorostyrene		-	-	-	-	-	-	-
o- Or p-Xylene		NU	NU	NU	NU	NU	NU	NU
Pentachlorobenzene		-	-	-	-	-	-	-
Pentachlorobutadiene		NU	1000 (J)	-	NU	42 (J)	-	
Pentachlorobutene		-	-	-	-	-	-	-
Pentachlorocyclopropane		-	-	-	-	NU	-	-
Pyrene		-	-	-	-	-	-	-
Styrene		-	NU	-	7 J		-	-
Tetrachlorobenzene		-	-	-	-	NU	-	-
Tetrachlorobutadiene		NU	290 (J)	-	NU	NU	-	-
Tetrachloroethylene		58	100	NU	800	45	NU	U 6
Tetrafluorobromochloropropane		-	-	-	-	-	-	-
Trichlorobutadiene		NU	-	-	-	NU	-	-
Trichloroethylene		NU	NU	NU	NU	NU	NU	NU

SUMMARY OF VOLATILE RESULTS FROM 1985 S[illegible] CLAIR RIVER CENTRIFUGED SOLIDS (EFFLUENT) ng/g
Analysis Performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	8U29#	8U31J	8U33C	8U37A	8U26#	8U38#	8U38J
	Station - Dist From Lwr Shore	Lake Drain		B10X			Polysar	
	Date	8B0531	8B1005	8B0716	8B1005	8B0515	8B0726	8B1005
PARAMETER	Depth							
Trichlorobenzene		-	-	-	-			-
Toluene		NU	NU	NU	NU	NU	NU	NU

Legend
- Compound not listed on data report
NU Compound listed but not detected
TR Trace amount
* Result from analysis by GC/MS extractable method
MUL Typically 1 ng/g
NA Not Analyzed
+ Present not quantitated (interferences present)
TIC Number of compounds

APPENDIX 3

EFFLUENT AND AMBIENT SEQUENTIAL SAMPLING RESULTS

ST. CLAIR RIVER SEQUENTIAL SAMPLING - 1986
INDUSTRIAL INTAKES/OUTFALLS
SELECTED PARAMETERS

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
15 7	860521	51401	1000	9	440	97	10	1	0
15 7	860521	51402	1030	7	480	96	7	0	0
15 7	860521	51403	1100	0	480	92	10	1	0
15 7	860521	51404	1130	0	380	84	9	1	0
15 7	860521	51405	1200	7	380	82	5	1	0
15 7	860521	51406	1230	5	390	81	8	1	0
15 7	860521	51407	1300	4	200	50	4	1	0
15 7	860521	51408	1330	7	370	76	6	1	0
15 7	860521	51409	1400	7	400	70	10	1	0
15 7	860521	51410	1430	2	180	40	2	1	0
15 7	860521	51411	1500	8	340	70	4	1	0
15 7	860521	51412	1530	5	330	66	9	1	0
15 7	860521	51413	1600	8	420	78	10	1	0
15 7	860521	51414	1630	9	38	60	13	0	0
	MINIMUM			0.00	38.00	40.00	2.00	0.00	0.00
	MAXIMUM			9.00	480.00	97.00	13.00	1.00	0.00
	MEAN			5.57	344.86	74.43	7.64	0.86	0.00
	STD. DEV.			2.95	120.11	16.02	2.97	0.35	0.00
	n			14	14	14	14	14	14
15 7	860708	51467	1030						
15 7	860708	51455	1100	9	315	24	19	0	0
15 7	860708	51456	1130	7	160	20	18	0	0
15 7	860708	51457	1200	6	42	11	16	0	0
15 7	860708	51459	1300	5	140	13	12	0	0
15 7	860708	51460	1330	7	150	17	15	0	0
15 7	860708	51461	1400	4	71	15	10	0	0
15 7	860708	51462	1430	5	62	17	9	0	0
15 7	860708	51463	1500	10	160	22	15	0	0
15 7	860708	51464	1530	5	62	14	10	0	0
15 7	860708	51465	1600	5	100	15	10	0	0
15 7	860708	51466	1630	0	65	16	0	0	0
	MINIMUM			0.00	42.00	11.00	0.00	0.00	0.00
	MAXIMUM			10.00	315.00	24.00	19.00	0.00	0.00
	MEAN			5.73	120.64	16.73	12.18	0.00	0.00
	STD. DEV.			2.53	74.56	3.72	5.08	0.00	0.00
	n			11	11	11	11	11	11
15 7	861001	50818	1030	60	4430	240	70	35	0
15 7	861001	50819	1100	70	5850	308	62	30	0
15 7	861001	50820	1130	71	5340	0	63	20	0
15 7	861001	50821	1200	84	5000	193	77	20	0
15 7	861001	50822	1230	97	8000	290	79	30	0
15 7	861001	50823	1300	90	6800	175	81	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug
15 7	861001	50824	1330	84	8400	300	64	0	0
15 7	861001	50825	1400	421	7600	250	70	0	0
15 7	861001	50826	1430	64	6100	212	56	0	0
15 7	861001	50827	1500	80	3300	104	78	0	0
15 7	861001	50828	1530	59	6900	220	43	0	0
15 7	861001	50829	1600	51	3200	106	57	0	0
15 7	861001	50830	1630	40	3500	118	33	0	0
	MINIMUM			40.00	3200.00	0.00	33.00	0.00	0.00
	MAXIMUM			421.00	8400.00	308.00	81.00	35.00	0.00
	MEAN			97.77	5724.62	193.54	64.08	10.38	0.00
	STD. DEV.			94.59	1711.88	87.40	13.79	13.65	0.00
	n			13	13	13	13	13	13

ST. CLAIR RIVER SEQUENTIAL SAMPLING - 1986
INDUSTRIAL INTAKES/OUTFALLS
SELECTED PARAMETERS

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
3 120	860521	51437	1000	1	51	1	0	0	0
3 120	860521	51438	1030	2	27	3	0	0	0
3 120	860521	51439	1100	0	80	0	0	0	2
3 120	860521	51440	1130	0	17	0	0	0	0
3 120	860521	51441	1200	0	25	0	0	0	0
3 120	860521	51442	1230	0	1	0	0	0	0
3 120	860521	51443	1300	2	5	0	0	0	0
3 120	860521	51444	1330	0	16	0	0	0	0
3 120	860521	51445	1400	0	37	3	0	0	0
3 120	860521	51446	1430	0	12	0	0	0	0
3 120	860521	51447	1500	3	112	4	0	0	0
3 120	860521	51448	1530	3	66	0	0	0	0
3 120	860521	51449	1600	0	1	0	0	0	0
3 120	860521	51450	1630	0	6	0	0	0	0
		MINIMUM		0.00	1.00	0.00	0.00	0.00	0.00
		MAXIMUM		3.00	112.00	4.00	0.00	0.00	2.00
		MEAN		0.79	32.57	0.79	0.00	0.00	0.14
		STD. DEV.		1.15	32.21	1.37	0.00	0.00	0.52
		n		14	14	14	14	14	14
3 120	860708	51473	1000	1	26	15	0	0	0
3 120	860708	51474	1030	2	7	6	0	0	0
3 120	860708	51475	1100	0	4	8	0	0	0
3 120	860708	51476	1130	1	15	4	0	0	0
3 120	860708	51477	1200	1	8	4	0	0	0
3 120	860708	51478	1230	0	4	15	0	0	0
3 120	860708	51479	1300	3	50	4	0	0	0
3 120	860708	51480	1330	0	4	7	0	0	0
3 120	860708	51481	1400	2	15	7	0	0	0
3 120	860708	51482	1430	0	3	5	0	0	0
3 120	860708	51483	1500	0	7	4	0	0	0
3 120	860708	51484	1530					0	0
3 120	860708	51485	1600	0	6	7	0	0	0
3 120	860708	51486	1630	0	4	7	0	0	0
		MINIMUM		0.00	3.00	4.00	0.00	0.00	0.00
		MAXIMUM		3.00	50.00	15.00	0.00	0.00	0.00
		MEAN		0.77	11.77	7.15	0.00	0.00	0.00
		STD. DEV.		0.97	12.70	3.61	0.00	0.00	0.00
		n		13	13	13	13	14	14
3 120	861001	50801	1000	0	0	0	0	0	0
3 120	861001	50802	1030	0	1	0	0	0	0
3 120	861001	50803	1100	0	0	0	0	0	0
3 120	861001	50804	1130	1	13	0	0	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA CHLORIDE ug
3 120	861001	50805	1200	0	3	0	0	0	0
3 120	861001	50806	1230	1	11	0	0	0	0
3 120	861001	50807	1300	0	1	0	0	0	0
3 120	861001	50808	1330	0	13	0	0	0	0
3 120	861001	50809	1400	0	5	0	0	0	0
3 120	861001	50810	1430	0	7	0	0	0	0
3 120	861001	50811	1500	0	1	0	0	0	0
3 120	861001	50812	1530	0	4	0	0	0	0
3 120	861001	50813	1600	0	4	0	0	0	0
3 120	861001	50814	1630	0	0	0	1	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		1.00	13.00	0.00	1.00	0.00	0.00
		MEAN		0.14	4.50	0.00	0.07	0.00	0.00
		STD. DEV.		0.35	4.58	0.00	0.26	0.00	0.00
		n		14	14	14	14	14	14
3 220	860521	51421	1000	1	35	1	0	0	0
3 220	860521	51422	1030	1	36	1	1	0	0
3 220	860521	51423	1100	0	26	0	0	0	0
3 220	860521	51424	1130	1	21	0	0	0	0
3 220	860521	51425	1200	1	28	0	1	0	0
3 220	860521	51426	1230	1	29	0	3	0	0
3 220	860521	51427	1300	0	28	0	0	0	0
3 220	860521	51428	1330	0	28	1	0	0	0
3 220	860521	51429	1400	0	30	0	3	0	0
3 220	860521	51430	1430	1	27	1	0	0	0
3 220	860521	51431	1500	1	26	0	0	0	0
3 220	860521	51432	1530	0	24	2	2	0	0
3 220	860521	51433	1600	0	23	1	0	0	0
3 220	860521	51434	1630	1	21	0	3	0	0
		MINIMUM		0.00	21.00	0.00	0.00	0.00	0.00
		MAXIMUM		1.00	36.00	2.00	3.00	0.00	0.00
		MEAN		0.57	27.29	0.50	0.93	0.00	0.00
		STD. DEV.		0.49	4.30	0.63	1.22	0.00	0.00
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0000	0.0007	0.0000	0.0000	0.0000	0.0000
3 220	860708	51489	1000	6	23	9	5	0	0
3 220	860708	51490	1030	0	36	3	7	0	0
3 220	860708	51491	1100	57	51	34	21	0	0
3 220	860708	51492	1130	1	19	0	5	0	0
3 220	860708	51493	1200	0	12	0	3	0	0
3 220	860708	51494	1230	0	20	3	3	0	0
3 220	860708	51495	1300	3	38	2	3	0	0
3 220	860708	51496	1330	0	20	3	3	0	0
3 220	860708	51497	1400	0	39	0	3	0	0
3 220	860708	51498	1430	3	36	1	3	0	0
3 220	860708	51499	1500	1	44	1	5	0	0
3 220	860708	51500	1530	0	15	0	3	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
3 220	860708	51501	1600	0	43	1	4	1	2
3 220	860708	51502	1625	2	22	4	4	0	0
	MINIMUM			0.00	12.00	0.00	3.00	0.00	0.00
	MAXIMUM			57.00	51.00	34.00	21.00	1.00	2.00
	MEAN			5.21	29.86	4.36	5.14	0.07	0.14
	STD. DEV.			14.46	11.97	8.54	4.55	0.26	0.52
	n			14	14	14	14	14	14
	LOADINGS (kg/day)			0.0001	0.0008	0.0001	0.0001	0.0020	0.0040
3 220	861001	53449	1000	0	34	1	0	0	0
3 220	861001	53450	1030	0	25	0	0	0	0
3 220	861001	53451	1100	0	32	0	0	0	0
3 220	861001	53452	1130	0	33	0	0	0	0
3 220	861001	53453	1200	0	27	0	0	0	0
3 220	861001	53454	1230	0	50	1	2	0	0
3 220	861001	53455	1300	0	34	0	0	0	0
3 220	861001	53456	1330	0	16	0	1	0	0
3 220	861001	53457	1400	2	62	0	2	0	0
3 220	861001	53458	1430	2	37	0	2	0	0
3 220	861001	53459	1500	0	30	0	3	0	0
3 220	861001	53460	1530	2	50	0	0	0	0
3 220	861001	53461	1600	0	46	0	1	0	0
3 220	861001	53462	1625	0	42	0	0	38	0
	MINIMUM			0.00	16.00	0.00	0.00	0.00	0.00
	MAXIMUM			2.00	62.00	1.00	3.00	38.00	0.00
	MEAN			0.43	37.00	0.14	0.79	2.71	0.00
	STD. DEV.			0.82	11.53	0.35	1.01	9.79	0.00
	n			14	14	14	14	14	14
	LOADINGS (kg/day)			0.0000	0.0012	0.0000	0.0000	0.0880	0.0000
3 620	860521	51417	1200		7	7	13	0	0
3 620	860521	51418	1400	2	6	9	9	0	0
3 620	860521	51419	1600	3	8	7	13	105	4
	MINIMUM			2.00	6.00	7.00	9.00	0.00	0.00
	MAXIMUM			3.00	8.00	9.00	13.00	105.00	4.00
	MEAN			2.50	7.00	7.67	11.67	35.00	1.33
	STD. DEV.			0.50	0.82	0.94	1.89	49.50	1.89
	n			2	3	3	3	3	3
	LOADINGS (kg/day)			0.0000	0.0001	0.0001	0.0001	0.3849	0.0147
3 620	860708	51469	1200	0	2	0	5	0	0
3 620	860708	51470	1400	0	3	0	6	0	0
3 620	860708	51471	1600	0	0	0	7	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
		MINIMUM		0.00	0.00	0.00	5.00	0.00	0.00
		MAXIMUM		0.00	3.00	0.00	7.00	0.00	0.00
		MEAN		0.00	1.67	0.00	6.00	0.00	0.00
		STD. DEV.		0.00	1.25	0.00	0.82	0.00	0.00
		n		3	3	3	3	3	3
		LOADINGS (kg/day)		0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
3 620	861001	50833	1200	8	6	4	3	0	0
3 620	861001	50834	1400	9	18	17	3	20	0
3 620	861001	50835	1600	8	14	6	6	20	0
		MINIMUM		8.00	6.00	4.00	3.00	0.00	0.00
		MAXIMUM		9.00	18.00	17.00	6.00	20.00	0.00
		MEAN		8.33	12.67	9.00	4.00	13.33	0.00
		STD. DEV.		0.47	4.99	5.72	1.41	9.43	0.00
		n		3	3	3	3	3	3
		LOADINGS (kg/day)		0.0001	0.0001	0.0001	0.0000	0.1200	0.0000
49 120	860521	51181	1025	0	0	0	0	4	0
49 120	860521	51182	1030	0	0	0	0	4	0
49 120	860521	51183	1100	0	0	0	0	4	0
49 120	860521	51184	1130	0	0	0	0	4	0
49 120	860521	51185	1201	0	0	0	0	4	0
49 120	860521	51186	1230	6	20	5	0	5	0
49 120	860521	51187	1300	0	0	0	0	4	0
49 120	860521	51188	1330	0	4	3	0	4	0
49 120	860521	51189	1400	0	5	4	0	6	0
49 120	860521	51190	1430	0	0	0	0	6	0
49 120	860521	51191	1500	1	0	0	0	5	0
49 120	860521	51192	1530	0	0	0	0	7	0
49 120	860521	51193	1600	0	6	5	0	5	0
49 120	860521	51194	1630	0	3	0	0	7	0
		MINIMUM		0.00	0.00	0.00	0.00	4.00	0.00
		MAXIMUM		6.00	20.00	5.00	0.00	7.00	0.00
		MEAN		0.50	2.71	1.21	0.00	4.93	0.00
		STD. DEV.		1.55	5.23	1.97	0.00	1.10	0.00
		n		14	14	14	14	14	14
49 120	860708	51633	956	0	10	15	0	4	0
49 120	860708	51634	1027	0	8	5	0	4	0
49 120	860708	51635	1059	0	8	6	0	4	0
49 120	860708	51636	1130	0	7	5	0	4	0
49 120	860708	51637	1201	0	2	2	0	3	0
49 120	860708	51638	1229	0	3	3	0	4	0
49 120	860708	51639	1300	5	9	6	0	4	0
49 120	860708	51640	1330	1	7	8	0	5	0
49 120	860708	51641	1400	0	7	5	0	4	0
49 120	860708	51642	1428	1	0	0	0	3	0
49 120	860708	51643	1500	0	2	2	0	4	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
49 120	860708	51644	1529	0	5	6	0	3	0
49 120	860708	51645	1600	0	8	8	0	4	0
49 120	860708	51646	1628	2	12	11	0	4	0
		MINIMUM		0.00	0.00	0.00	0.00	3.00	0.00
		MAXIMUM		5.00	12.00	15.00	0.00	5.00	0.00
		MEAN		0.64	6.29	5.86	0.00	3.86	0.00
		STD. DEV.		1.34	3.30	3.72	0.00	0.52	0.00
		n		14	14	14	14	14	14
49 120	861001	50837	1000	1	0	0	0	2	0
49 120	861001	50838	1030	0	20	0	1	2	0
49 120	861001	50839	1100	3	27	2	0	2	0
49 120	861001	50840	1130	1	0	0	1	2	0
49 120	861001	50841	1200	2	0	0	1	2	0
49 120	861001	50842	1230	1	0	0	2	2	0
49 120	861001	50843	1300	4	0	0	1	2	0
49 120	861001	50844	1330	4	0	0	5	3	0
49 120	861001	50845	1400	2	0	0	1	2	0
49 120	861001	50846	1430	4	22	2	1	2	0
49 120	861001	50847	1500	3	8	0	3	2	0
49 120	861001	50848	1530	3	21	2	1	2	0
49 120	861001	50849	1600	2	30	2	1	2	0
49 120	861001	50850	1630					2	0
		MINIMUM		0.00	0.00	0.00	0.00	2.00	0.00
		MAXIMUM		4.00	30.00	2.00	5.00	3.00	0.00
		MEAN		2.31	9.85	0.62	1.38	2.07	0.00
		STD. DEV.		1.26	11.63	0.92	1.27	0.26	0.00
		n		13	13	13	13	14	14
91 120	860521	51117	1000	0	7	4	0	1	1
91 120	860521	51118	1030	1	18	10	0	1	1
91 120	860521	51119	1100	4	5	3	0	0	1
91 120	860521	51120	1130	1	21	7	0	1	3
91 120	860521	51121	1200	0	15	16	0	1	4
91 120	860521	51122	1230	0	2	2	0	1	1
91 120	860521	51123	1300	7	8	5	0	0	0
91 120	860521	51124	1335	0	11	6	0	1	1
91 120	860521	51125	1400	0	8	5	0	1	1
91 120	860521	51126	1430	0	2	1	0	1	1
91 120	860521	51127	1500	0	0	4	0	1	1
91 120	860521	51128	1535	0	13	9	0	1	1
91 120	860521	51129	1600	0	7	5	0	1	1
91 120	860521	51130	1630	0	4	2	0	1	1

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
		MINIMUM		0.00	0.00	1.00	0.00	0.00	0.00
		MAXIMUM		7.00	21.00	16.00	0.00	1.00	4.00
		MEAN		0.93	8.64	5.64	0.00	0.86	1.29
		STD. DEV.		1.98	6.03	3.79	0.00	0.35	0.96
		n		14	14	14	14	14	14
91	120	860708	51553	1000	2	10	8	0	0	0
91	120	860708	51554	1030	1	5	8	0	0	0
91	120	860708	51555	1100	0	6	7	0	1	1
91	120	860708	51556	1130	0	4	13	0	0	0
91	120	860708	51557	1205	1	7	8	0	0	0
91	120	860708	51558	1235	0	6	7	0	0	0
91	120	860708	51559	1305	0	6	8	0	0	0
91	120	860708	51560	1330	1	21	8	0	0	0
91	120	860708	51561	1400	1	10	9	0	0	0
91	120	860708	51562	1430					0	0
91	120	860708	51563	1505	0	4	8	0	0	0
91	120	860708	51564	1530	0	3	6	0	0	0
91	120	860708	51565	1600	1	5	8	0	0	1
91	120	860708	51566	1635	0	4	4	0	0	0
		MINIMUM			0.00	3.00	4.00	0.00	0.00	0.00
		MAXIMUM			2.00	21.00	13.00	0.00	1.00	1.00
		MEAN			0.54	7.00	7.85	0.00	0.07	0.14
		STD. DEV.			0.63	4.54	1.92	0.00	0.26	0.35
		n			13	13	13	13	14	14
91	120	861001	53513	1000	2	38	2	1	0	1
91	120	861001	53514	1030					0	0
91	120	861001	53515	1100					0	0
91	120	861001	53516	1130	2	41	1	1	0	0
91	120	861001	53517	1200	1	23	0	1	0	0
91	120	861001	53518	1230	1	6	0	0	0	0
91	120	861001	53519	1300	4	40	0	1	0	0
91	120	861001	53520	1330					0	0
91	120	861001	53521	1400					0	0
91	120	861001	53522	1430	0	0	0	0	0	0
91	120	861001	53523	1500	2	35	1	1	0	0
91	120	861001	53524	1530	0	0	0	0	0	0
91	120	861001	53525	1600	2	24	1	1	0	1
91	120	861001	53526	1630	1	10	0	0	0	0
		MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM			4.00	41.00	2.00	1.00	0.00	1.00
		MEAN			1.50	21.70	0.50	0.60	0.00	0.14
		STD. DEV.			1.12	15.75	0.67	0.49	0.00	0.35
		n			10	10	10	10	14	14

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 220	860521	51053	1001	75	315	0	87	0	49
91 220	860521	51054	1030	260	580	670	130	0	19
91 220	860521	51055	1100	98	310	0	140	55	34
91 220	860521	51056	1130	118	260	0	100	50	44
91 220	860521	51057	1200	122	270	0	57	48	44
91 220	860521	51058	1230					51	34
91 220	860521	51059	1300					54	40
91 220	860521	51060	1330					45	33
91 220	860521	51061	1400	98	290	0	70	48	39
91 220	860521	51062	1430	68	310	0	85	69	35
91 220	860521	51063	1500	50	280	0	37	48	37
91 220	860521	51064	1530	90	245	0	51	54	32
91 220	860521	51065	1600	0	510	0	71		
91 220	860521	51066	1630	70	430	720	73	48	42
		MINIMUM		0.00	245.00	0.00	37.00	0.00	19.00
		MAXIMUM		260.00	580.00	720.00	140.00	69.00	49.00
		MEAN		95.36	345.45	126.36	81.91	43.85	37.08
		STD. DEV.		61.30	105.80	268.27	30.13	19.55	7.16
		n		11	11	11	11	13	13
		LOADINGS (kg/day)		0.0049	0.0176	0.0065	0.0042	2.6464	2.2379
91 220	860708	51505	1024	70	415	605	46	47	34
91 220	860708	51506	1035	50	360	630	46	34	27
91 220	860708	51507	1107	45	203	410	44	61	38
91 220	860708	51508	1137	43	160	385	39	62	30
91 220	860708	51509	1210	240	450	470	130	71	31
91 220	860708	51510	1236	69	400	660	46	71	36
91 220	860708	51511	1308	62	350	570	56	75	35
91 220	860708	51512	1338	73	300	540	55	78	45
91 220	860708	51513	1406	87	380	660	58	80	62
91 220	860708	51514	1437	87	515	820	58	78	50
91 220	860708	51515	1506	70	250	590	55	70	50
91 220	860708	51516	1536	52	250	490	50	48	34
91 220	860708	51517	1606	125	270	370	70	24	22
91 220	860708	51518	1636	65	260	600	63	0	0
		MINIMUM		43.00	160.00	370.00	39.00	0.00	0.00
		MAXIMUM		240.00	515.00	820.00	130.00	80.00	62.00
		MEAN		81.29	325.93	557.14	58.29	57.07	35.29
		STD. DEV.		48.47	96.93	119.41	21.43	22.97	14.11
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0045	0.0179	0.0306	0.0032	3.1352	1.9384
91 220	861001	53465	1000	240	630	560	0	28	33
91 220	861001	53466	1028	240	250	1260	255	180	50
91 220	861001	53467	1100	180	990	655	115	125	49
91 220	861001	53468	1130	230	1290	780	177	175	54
91 220	861001	53469	1200	200	1240	415	150	355	127
91 220	861001	53470	1230	1260	6000	2970	1255	287	44
91 220	861001	53471	1300	2650	6620	3400	1130	134	43
91 220	861001	53472	1330	140	580	290	95	107	34

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 220	861001	53473	1400	1130	4300	1570	1380	115	38
91 220	861001	53474	1430	200	1540	890	150	111	37
91 220	861001	53475	1500	0	650	620	0	116	33
91 220	861001	53476	1530	0	0	0	0	115	35
91 220	861001	53477	1600	200	900	86	150	123	40
91 220	861001	53478	1630	190	1530	1290	145		
		MINIMUM		0.00	0.00	0.00	0.00	28.00	33.00
		MAXIMUM		2650.00	6620.00	3400.00	1380.00	355.00	127.00
		MEAN		490.00	1894.29	1056.14	357.29	151.62	47.46
		STD. DEV.		702.13	2052.88	973.68	476.32	81.22	23.89
		n		14	14	14	14	13	13
		LOADINGS (kg/day)		0.0327	0.1263	0.0704	0.0238	9.3873	2.9386
91 320	860521	51069	1001	0	17	2	3	0	0
91 320	860521	51070	1030	0	7	0	0	0	0
91 320	860521	51071	1115	0	10	0	0	0	0
91 320	860521	51072	1131	4	13	0	6	0	0
91 320	860521	51073	1200	50	9	2	0	0	0
91 320	860521	51074	1230	0	10	0	0	0	0
91 320	860521	51075	1300	0	9	4	0	1	0
91 320	860521	51076	1330	0	3	0	0	1	0
91 320	860521	51077	1400	0	6	0	0	0	1
91 320	860521	51078	1430	0	17	0	0	0	0
91 320	860521	51079	1500	0	8	0	0	0	0
91 320	860521	51080	1530	0	13	4	0	0	0
91 320	860521	51081	1600	0	7	2	0	0	0
91 320	860521	51082	1630	3	16	3	0	0	0
		MINIMUM		0.00	3.00	0.00	0.00	0.00	0.00
		MAXIMUM		50.00	17.00	4.00	6.00	1.00	1.00
		MEAN		4.07	10.36	1.21	0.64	0.14	0.07
		STD. DEV.		12.80	4.13	1.52	1.67	0.35	0.26
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0003	0.0007	0.0001	0.0000	0.0093	0.0046
91 320	860708	51521	1015	0	11	3	0	0	0
91 320	860708	51522	1033	0	10	4	0	0	0
91 320	860708	51523	1102	0	8	6	0	0	0
91 320	860708	51524	1133	0	19	5	2	0	0
91 320	860708	51525	1205	0	19	5	3	0	0
91 320	860708	51526	1233	0	12	3	0		
91 320	860708	51527	1306	0	15	3	0	2	0
91 320	860708	51528	1335	0	11	16	3		
91 320	860708	51529	1403	0	6	2	0	0	0
91 320	860708	51530	1433	0	3	3	0		
91 320	860708	51531	1503	0	0	2	0	1	1
91 320	860708	51532	1532	0	6	3	0	1	0
91 320	860708	51533	1603	0	6	3	1		
91 320	860708	51534	1633	0	5	3	0	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
	MINIMUM			0.00	0.00	2.00	0.00	0.00	0.00
	MAXIMUM			0.00	19.00	16.00	3.00	2.00	1.00
	MEAN			0.00	9.36	4.36	0.64	0.40	0.10
	STD. DEV.			0.00	5.43	3.41	1.11	0.66	0.30
	n			14	14	14	14	10	10
	LOADINGS (kg/day)			0.0000	0.0006	0.0003	0.0000	0.0181	0.0045
91 320	861001	53481	1005	0	9	0	0	0	0
91 320	861001	53482	1030	0	36	0	0	0	0
91 320	861001	53483	1102	0	37	0	0	0	0
91 320	861001	53484	1132	0	30	0	0	4	1
91 320	861001	53485	1202	0	35	0	0	2	0
91 320	861001	53486	1232	0	50	0	0	4	1
91 320	861001	53487	1302	0	20	0	0	1	0
91 320	861001	53488	1330	0	13	0	0	0	0
91 320	861001	53489	1400	0	30	0	0	0	0
91 320	861001	53490	1431	0	20	0	0	0	0
91 320	861001	53491	1500	0	30	0	0	0	0
91 320	861001	53492	1530	0	35	1	2	0	0
91 320	861001	53493	1602	0	17	0	3	0	0
91 320	861001	53494	1631	0	23	4	1	0	0
	MINIMUM			0.00	9.00	0.00	0.00	0.00	0.00
	MAXIMUM			0.00	50.00	4.00	3.00	4.00	1.00
	MEAN			0.00	27.50	0.36	0.43	0.79	0.14
	STD. DEV.			0.00	10.68	1.04	0.90	1.42	0.35
	n			14	14	14	14	14	14
	LOADINGS (kg/day)			0.0000	0.0017	0.0000	0.0000	0.0474	0.0086
91 520	860521	51085	1007	2	63	0	0	16	88
91 520	860521	51086	1035	2	45	0	0	0	64
91 520	860521	51087	1104	2	16	0	5	20	14
91 520	860521	51088	1135	0	50	55	0	17	49
91 520	860521	51089	1206	0	120	165	0	20	22
91 520	860521	51090	1235	0	90	120	0	32	133
91 520	860521	51091	1305	0	36	45	0	27	36
91 520	860521	51092	1333	0	17	35	0	20	37
91 520	860521	51093	1406	0	50	0	0	17	40
91 520	860521	51094	1435	6	15	0	4	9	4
91 520	860521	51095	1503	4	10	3	2	16	2
91 520	860521	51096	1533	2	11	0	0	17	1
91 520	860521	51097	1603	0	11	14	0	18	1
91 520	860521	51098	1635	2	11	0	0	8	1
	MINIMUM			0.00	10.00	0.00	0.00	0.00	1.00
	MAXIMUM			6.00	120.00	165.00	5.00	32.00	133.00
	MEAN			1.43	38.93	31.21	0.79	16.93	35.14
	STD. DEV.			1.76	32.52	49.62	1.61	7.51	37.42
	n			14	14	14	14	14	14
	LOADINGS (kg/day)			0.0001	0.0014	0.0011	0.0000	0.5925	1.2300

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 520	860708	51537	1020	0	7	14	0	0	0
91 520	860708	51538	1031	2	8	14	0		
91 520	860708	51539	1104	0	7	16	0		
91 520	860708	51540	1135	0	16	19	0	0	18
91 520	860708	51541	1202	0	9	17	0		
91 520	860708	51542	1232	7	300	19	19		
91 520	860708	51543	1302	0	7	12	0	0	0
91 520	860708	51544	1332	0	4	13	0	0	17
91 520	860708	51545	1402	0	6	16	0		
91 520	860708	51546	1430	0	14	20	0	0	0
91 520	860708	51547	1500	0	0	2	0		
91 520	860708	51548	1530	0	8	19	0	0	0
91 520	860708	51549	1600	0	13	20	0	0	0
91 520	860708	51550	1630	0	17	20	6	2	0
		MINIMUM		0.00	0.00	2.00	0.00	0.00	0.00
		MAXIMUM		7.00	300.00	20.00	19.00	2.00	18.00
		MEAN		0.64	29.71	15.79	1.79	0.25	4.38
		STD. DEV.		1.84	75.10	4.66	5.02	0.66	7.58
		n		14	14	14	14	8	8
		LOADINGS (kg/day)		0.0000	0.0008	0.0004	0.0000	0.0039	0.0691
91 520	861001	53497	1005	0	40	25	2	2	16
91 520	861001	53498	1030	0	70	51	0	2	16
91 520	861001	53499	1105	0	66	57	0	2	11
91 520	861001	53500	1135	30	84	68	16	2	11
91 520	861001	53501	1205	0	63	51	0	2	16
91 520	861001	53502	1235	15	120	43	11	2	11
91 520	861001	53503	1306	0	0	66	0	2	16
91 520	861001	53504	1332	0	45	50	0	1	10
91 520	861001	53505	1405	0	60	50	0	2	15
91 520	861001	53506	1435	3	25	0	2	2	10
91 520	861001	53507	1505	3	0	0	1	2	12
91 520	861001	53508	1535	3	26	0	2	2	16
91 520	861001	53509	1606	1	22	0	0	2	11
91 520	861001	53510	1632	2	0	0	0	1	9
		MINIMUM		0.00	0.00	0.00	0.00	1.00	9.00
		MAXIMUM		30.00	120.00	68.00	16.00	2.00	16.00
		MEAN		4.07	44.36	32.93	2.43	1.86	12.86
		STD. DEV.		8.13	33.96	26.36	4.69	0.35	2.67
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0001	0.0015	0.0011	0.0001	0.0645	0.4463
91 620	860521	51101	1002	4	18	14	4	0	0
91 620	860521	51102	1030	0	10	7	0	0	0
91 620	860521	51103	1103	5	0	0	0	0	0
91 620	860521	51104	1132	0	12	10	0	0	0
91 620	860521	51105	1200	1	16	13	0	0	0
91 620	860521	51106	1230	2	7	0	0	0	0
91 620	860521	51107	1303	3	13	11	0	0	0
91 620	860521	51108	1330	25	93	24	9	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 620	860521	51109	1400	1	6	13	0		
91 620	860521	51110	1430	3	9	7	0	0	0
91 620	860521	51111	1500	2	9	9	0	0	0
91 620	860521	51112	1530	0	10	10	0	0	0
91 620	860521	51113	1600	21	8	8	0	0	0
91 620	860521	51114	1630	3	13	7	0	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		25.00	93.00	24.00	9.00	0.00	0.00
		MEAN		5.00	16.00	9.50	0.93	0.00	0.00
		STD. DEV.		7.53	21.77	5.73	2.46	0.00	0.00
		n		14	14	14	14	13	13
		LOADINGS (kg/day)		0.0004	0.0012	0.0007	0.0001	0.0000	0.0000
91 620	860708	51569	1015	4	17	15	2	0	17
91 620	860708	51570	1030	0	8	6	0	0	9
91 620	860708	51571	1100	1	9	15	2	0	7
91 620	860708	51572	1130	1	8	12	0	0	7
91 620	860708	51573	1200	2	8	6	0	0	6
91 620	860708	51574	1230	1	14	13	2	0	6
91 620	860708	51575	1300	2	7	9	0	0	6
91 620	860708	51576	1330	0	8	11	0	0	8
91 620	860708	51577	1400	0	10	10	0	0	7
91 620	860708	51578	1430	2	12	11	0	0	8
91 620	860708	51579	1500	1	7	12	0	0	7
91 620	860708	51580	1530	1	12	9	0	0	9
91 620	860708	51581	1600	1	10	24	0	0	7
91 620	860708	51582	1630	0	4	14	0	0	8
		MINIMUM		0.00	4.00	6.00	0.00	0.00	6.00
		MAXIMUM		4.00	17.00	24.00	2.00	0.00	17.00
		MEAN		1.14	9.57	11.93	0.43	0.00	8.00
		STD. DEV.		1.06	3.18	4.33	0.82	0.00	2.67
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0001	0.0005	0.0007	0.0000	0.0000	0.4374
91 620	861001	53529	1005	1	0	20	0	1	4
91 620	861001	53530	1030	2	23	13	1	1	4
91 620	861001	53531	1100	1	25	13	2	2	5
91 620	861001	53532	1134	2	37	13	3	2	5
91 620	861001	53533	1200	3	47	15	2	1	4
91 620	861001	53534	1230	8	30	9	7	1	4
91 620	861001	53535	1300	2	35	21	2	1	4
91 620	861001	53536	1330	1	35	16	2	1	7
91 620	861001	53537	1401	2	28	15	1	0	4
91 620	861001	53538	1430	3	30	4	2	0	4
91 620	861001	53539	1500	2	36	12	0	1	5
91 620	861001	53540	1530	2	22	8	2	1	4
91 620	861001	53541	1600	2	35	13	1	1	5
91 620	861001	53542	1630	2	44	12	3	1	5

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA CHLORIDE ug/L
	MINIMUM			1.00	0.00	4.00	0.00	0.00	4.00
	MAXIMUM			8.00	47.00	21.00	7.00	2.00	7.00
	MEAN			2.36	30.50	13.14	2.00	1.00	4.57
	STD. DEV.			1.67	10.97	4.26	1.65	0.53	0.82
	n			14	14	14	14	14	14
	LOADINGS (kg/day)			0.0001	0.0017	0.0007	0.0001	0.0557	0.2545
91 720	860521	51133	958	1	20	0	2	0	5
91 720	860521	51134	1028	2	8	0	0	0	4
91 720	860521	51135	1058	1	7	0	0	0	4
91 720	860521	51136	1131	2	17	4	0	0	5
91 720	860521	51137	1159	2	0	7	0	0	5
91 720	860521	51138	1227	7	10	0	30	0	4
91 720	860521	51139	1300	1	6	0	0	0	5
91 720	860521	51140	1327	2	6	5	0	0	5
91 720	860521	51141	1359	2	2	0	0		
91 720	860521	51142	1427	0	2	1	0		
91 720	860521	51143	1500	5	9	4	0	0	4
91 720	860521	51144	1528	4	9	0	0	0	5
91 720	860521	51145	1600	1	7	0	0	0	6
91 720	860521	51146	1629	1	14	2	1	0	6
	MINIMUM			0.00	0.00	0.00	0.00	0.00	4.00
	MAXIMUM			7.00	20.00	7.00	30.00	0.00	6.00
	MEAN			2.21	8.36	1.64	2.36	0.00	4.83
	STD. DEV.			1.82	5.42	2.29	7.69	0.00	0.69
	n			14	14	14	14	12	12
	LOADINGS (kg/day)			0.0003	0.0010	0.0002	0.0003	0.0000	0.4971
91 720	860708	51585	1010	1	7	8	0	0	5
91 720	860708	51586	1035	1	7	8	0	0	6
91 720	860708	51587	1105	0	10	8	0	0	5
91 720	860708	51588	1135	7	8	7	0	0	5
91 720	860708	51589	1200	0	3	8	0	0	5
91 720	860708	51590	1230	0	6	7	4	0	5
91 720	860708	51591	1300	0	0	0	2	0	5
91 720	860708	51592	1335	0	7	9	0	0	5
91 720	860708	51593	1405	0	0	0	2	0	6
91 720	860708	51594	1435	0	0	0	0	1	6
91 720	860708	51595	1500	0	2	6	2	1	6
91 720	860708	51596	1535	0	8	5	0	1	6
91 720	860708	51597	1605	0	13	28	0	1	6
91 720	860708	51598	1630					1	7
	MINIMUM			0.00	0.00	0.00	0.00	0.00	5.00
	MAXIMUM			7.00	13.00	28.00	4.00	1.00	7.00
	MEAN			0.69	5.46	7.23	0.77	0.36	5.57
	STD. DEV.			1.86	3.97	6.80	1.25	0.48	0.62
	n			13	13	13	13	14	14
	LOADINGS (kg/day)			0.0000	0.0004	0.0005	0.0001	0.0267	0.4166

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 720	861001	53545	1006	1	27	0	1		
91 720	861001	53546	1035	4	32	0	5	1	4
91 720	861001	53547	1105	3	21	5	2	0	4
91 720	861001	53548	1135	2	19	2	2	0	2
91 720	861001	53549	1205	0	17	0	1	0	2
91 720	861001	53550	1235	2	34	0	3	0	2
91 720	861001	53551	1305	2	51	0	2	0	5
91 720	861001	53552	1335	4	25	0	4	0	4
91 720	861001	53553	1405	1	19	0	1	0	3
91 720	861001	53554	1435	1	22	0	2	0	3
91 720	861001	53555	1505	9	30	0	0	0	3
91 720	861001	53556	1535	1	29	4	2	0	3
91 720	861001	53557	1605	2	36	5	3	1	5
91 720	861001	53558	1635	1	14	0	1	1	6
		MINIMUM		0.00	14.00	0.00	0.00	0.00	2.00
		MAXIMUM		9.00	51.00	5.00	5.00	1.00	6.00
		MEAN		2.36	26.86	1.14	2.07	0.23	3.54
		STD. DEV.		2.16	9.28	1.92	1.28	0.42	1.22
		n		14	14	14	14	13	13
		LOADINGS (kg/day)		0.0002	0.0022	0.0001	0.0002	0.0172	0.2635
91 920	860521	51165	959	0	9	0	0	2	0
91 920	860521	51166	1029	4	3	1	0	2	0
91 920	860521	51167	1102	11	18	0	0	1	0
91 920	860521	51168	1130	2	3	0	0	1	0
91 920	860521	51169	1201	3	7	0	0	2	0
91 920	860521	51170	1230	3	8	13	0	0	0
91 920	860521	51171	1259	4	5	7	0	1	0
91 920	860521	51172	1332	2	6	0	0	2	0
91 920	860521	51173	1401	2	6	0	0	1	0
91 920	860521	51174	1430	4	6	6	0	2	0
91 920	860521	51175	1459	6	4	0	0	62	0
91 920	860521	51176	1530	4	6	8	0	6	7
91 920	860521	51177	1605	2	4	3	0	3	0
91 920	860521	51178	1630	2	2	3	0	3	0
		MINIMUM		0.00	2.00	0.00	0.00	0.00	0.00
		MAXIMUM		11.00	18.00	13.00	0.00	62.00	7.00
		MEAN		3.50	6.21	2.93	0.00	6.29	0.50
		STD. DEV.		2.50	3.78	3.94	0.00	15.51	1.80
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0020	0.0035	0.0017	0.0000	3.5514	0.2825
91 920	860708	51617	1010	2	0	0	0	1	1
91 920	860708	51618	1035	0	4	14	0	1	1
91 920	860708	51619	1057	0	3	25	0	1	0
91 920	860708	51620	1125	0	6	20	0	1	0
91 920	860708	51621	1154	1	9	20	0	1	0
91 920	860708	51622	1224	0	5	18	0	1	0
91 920	860708	51623	1259	0	4	13	0	0	0
91 920	860708	51624	1325	1	4	23	0	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
91 920	860708	51625	1352	1	11	23	0	1	0
91 920	860708	51626	1425	0	5	20	0	1	0
91 920	860708	51627	1455	0	4	40	0	1	0
91 920	860708	51628	1526	1	5	60	0	1	0
91 920	860708	51629	1553	0	7	48	0	1	0
91 920	860708	51630	1628	0	4	27	0	2	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		2.00	11.00	60.00	0.00	2.00	1.00
		MEAN		0.43	5.07	25.07	0.00	0.93	0.14
		STD. DEV.		0.62	2.55	14.65	0.00	0.46	0.35
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0002	0.0018	0.0090	0.0000	0.3342	0.0514
91 920	861001	53577	959	17	22	0	0	1	0
91 920	861001	53578	1029	0	25	0	0	2	0
91 920	861001	53579	1058	2	21	0	2	2	0
91 920	861001	53580	1129	2	32	0	1	2	0
91 920	861001	53581	1159	2	22	0	2	2	0
91 920	861001	53582	1235	1	30	0	1	1	0
91 920	861001	53583	1301	1	33	0	1	1	0
91 920	861001	53584	1329	1	27	56	1	1	0
91 920	861001	53585	1401	0	16	0	0	1	0
91 920	861001	53586	1427	1	27	37	1	1	0
91 920	861001	53587	1457	4	56	33	1	1	0
91 920	861001	53588	1529	3	33	32	1	1	0
91 920	861001	53589	1559	0	0	0	0	1	0
91 920	861001	53590	1626	7	20	0	1	1	0
		MINIMUM		0.00	0.00	0.00	0.00	1.00	0.00
		MAXIMUM		17.00	56.00	56.00	2.00	2.00	0.00
		MEAN		2.93	26.00	11.29	0.86	1.29	0.00
		STD. DEV.		4.30	11.72	18.58	0.64	0.45	0.00
		n		14	14	14	14	14	14
		LOADINGS (kg/day)		0.0013	0.0113	0.0049	0.0004	0.5573	0.0000
911120	860521	51149	1005	0	2	0	0	0	0
911120	860521	51150	1035	0	7	0	0	0	0
911120	860521	51151	1105	0	2	0	0	0	0
911120	860521	51152	1135	0	0	0	0	0	0
911120	860521	51153	1207	0	7	5	0	0	0
911120	860521	51154	1235	0	10	8	0	0	0
911120	860521	51155	1303	0	8	5	0	0	0
911120	860521	51156	1330	0	10	10	0	0	0
911120	860521	51157	1405	0	10	0	0	0	0
911120	860521	51158	1433	3	12	0	0	0	0
911120	860521	51159	1503	0	8	0	0	0	0
911120	860521	51160	1530	0	0	0	0	0	0
911120	860521	51161	1605	0	0	0	0	0	0
911120	860521	51162	1635	0	1	0	0	0	0

STATION	DATE	SAMPLE#	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		3.00	12.00	10.00	0.00	0.00	0.00
		MEAN		0.21	5.50	2.00	0.00	0.00	0.00
		STD. DEV.		0.77	4.27	3.36	0.00	0.00	0.00
		n		14	14	14	14	14	14
911120	860708	51601	1005	0	1	0	0	0	0
911120	860708	51602	1040	2	4	2	0	0	0
911120	860708	51603	1102	2	0	0	0	0	0
911120	860708	51604	1130	0	2	7	0	0	0
911120	860708	51605	1159	0	2	0	0	0	0
911120	860708	51606	1231	0	4	1	0	0	0
911120	860708	51607	1304	2	6	7	0	0	0
911120	860708	51608	1331	0	8	9	0	0	0
911120	860708	51609	1359	0	0	0	0	0	0
911120	860708	51610	1428	0	1	0	0	0	0
911120	860708	51611	1520	0	7	6	0	0	0
911120	860708	51612	1534	0	2	0	0	0	0
911120	860708	51613	1601	1	13	4	0	0	0
911120	860708	51614	1624	0	11	5	0	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		2.00	13.00	9.00	0.00	0.00	0.00
		MEAN		0.50	4.36	2.93	0.00	0.00	0.00
		STD. DEV.		0.82	3.96	3.17	0.00	0.00	0.00
		n		14	14	14	14	14	14
911120	861001	53561	1002	1	26	0	0	0	0
911120	861001	53562	1032	1	10	0	0	0	0
911120	861001	53563	1059	1	7	0	0	0	0
911120	861001	53564	1131	1	36	0	0	0	0
911120	861001	53565	1205	1	6	0	1	0	1
911120	861001	53566	1225	2	40	1	1	0	0
911120	861001	53567	1305	2	16	0	1	0	0
911120	861001	53568	1332	2	19	0	1	0	0
911120	861001	53569	1404	1	37	0	0	0	0
911120	861001	53570	1430	10	25	0	0	0	0
911120	861001	53571	1459	6	50	0	6	0	0
911120	861001	53572	1531	2	53	11	1	0	0
911120	861001	53573	1620	2	15	0	1	0	0
911120	861001	53574	1629	1	17	0	0	0	0
		MINIMUM		1.00	6.00	0.00	0.00	0.00	0.00
		MAXIMUM		10.00	53.00	11.00	6.00	0.00	1.00
		MEAN		2.36	25.50	0.86	0.86	0.00	0.07
		STD. DEV.		2.47	14.85	2.82	1.51	0.00	0.26
		n		14	14	14	14	14	14

ST. CLAIR RIVER SEQUENTIAL SAMPLING - 1986
AMBIENT RIVER STATIONS
SELECTED PARAMETERS

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
18	545	860521	1028	0	0	18	0	3	8
18	545	860521	1053	0	3	2	0	1	2
18	545	860521	1122	0	2	0	0	1	3
18	545	860521	1152	0	6	4	0	1	1
18	545	860521	1220	0	4	2	0	2	1
18	545	860521	1251	0	6	4	0	2	2
18	545	860521	1313	1	6	3	0	2	5
18	545	860521	1352	0	9	6	0	2	4
18	545	860521	1418	0	6	4	0	0	0
18	545	860521	1448	2	10	5	0	2	3
18	545	860521	1519	0	3	1	0	2	1
18	545	860521	1550	0	4	3	0	2	5
18	545	860521	1618	0	12	16	0	2	4
18	545	860521	1645	0	7	6	0	1	2
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		2.00	12.00	18.00	0.00	3.00	8.00
		MEAN		0.21	5.57	5.29	0.00	1.64	2.93
		STD. DEV.		0.56	3.13	5.08	0.00	0.72	2.05
		n		14	14	14	14	14	14
18	545	860708	1007	0	9	5	0	0	0
18	545	860708	1041	1	3	8	0	0	0
18	545	860708	1107	0	3	9	0	0	0
18	545	860708	1137	1	10	10	0	2	0
18	545	860708	1208	0	8	10	0	2	0
18	545	860708	1234					0	0
18	545	860708	1307	0	10	9	0	0	0
18	545	860708	1338	2	3	6	0	1	0
18	545	860708	1408	0	4	6	0	2	0
18	545	860708	1438	0	2	6	0	2	0
18	545	860708	1508	0	2	3	0	0	0
18	545	860708	1537	0	10	10	0	0	0
18	545	860708	1607	0	2	5	0	0	0
18	545	860708	1637	0	2	2	0	1	0
		MINIMUM		0.00	2.00	2.00	0.00	0.00	0.00
		MAXIMUM		2.00	10.00	10.00	0.00	2.00	0.00
		MEAN		0.31	5.23	6.85	0.00	0.71	0.00
		STD. DEV.		0.61	3.38	2.60	0.00	0.88	0.00
		n		13	13	13	13	14	14
18	545	861001	1010	0	4	0	0	0	0
18	545	861001	1039	0	9	1	0	0	0
18	545	861001	1110	0	3	1	0	0	0
18	545	861001	1140	1	15	1	0	0	0

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
18	545	861001	1210	1	17	0	0	0	0
18	545	861001	1240	0	28	0	0	0	0
18	545	861001	1310	0	13	0	0		
18	545	861001	1340	0	5	0	0	0	0
18	545	861001	1410	0	0	0	0	0	0
18	545	861001	1440	0	2	0	0	0	0
18	545	861001	1510	5	23	3	4	0	0
18	545	861001	1540	0	11	0	0	0	0
18	545	861001	1610	0	3	1	0	0	0
18	545	861001	1640	1	17	0	0	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		5.00	28.00	3.00	4.00	0.00	0.00
		MEAN		0.57	10.71	0.50	0.29	0.00	0.00
		STD. DEV.		1.29	8.21	0.82	1.03	0.00	0.00
		n		14	14	14	14	13	13
18	615	860521	1031	0	8	10	0	2	7
18	615	860521	1056	0	4	3	0	4	8
18	615	860521	1124	0	5	4	0	3	5
18	615	860521	1155	0	15	13	0	2	3
18	615	860521	1223	1	6	4	0	4	4
18	615	860521	1254	0	4	8	0	3	3
18	615	860521	1321	2	14	13	0	3	5
18	615	860521	1355	0	17	16	0	3	5
18	615	860521	1420	0	8	6	0	2	0
18	615	860521	1450	0	10	6	0	3	3
18	615	860521	1521	2	13	6	0	2	1
18	615	860521	1552	0	7	4	0	5	3
18	615	860521	1622	0	13	13	0	4	6
18	615	860521	1647	0	6	5	0	3	4
		MINIMUM		0.00	4.00	3.00	0.00	2.00	0.00
		MAXIMUM		2.00	17.00	16.00	0.00	5.00	8.00
		MEAN		0.36	9.29	7.93	0.00	3.07	4.07
		STD. DEV.		0.72	4.20	4.11	0.00	0.88	2.09
		n		14	14	14	14	14	14
18	615	860708	1015	2	8	6	0	4	1
18	615	860708	1044	2	2	14	0	3	1
18	615	860708	1112	2	4	8	0	3	1
18	615	860708	1143	2	17	11	0	4	1
18	615	860708	1215	7	21	8	0	4	1
18	615	860708	1241	1	6	13	0	4	2
18	615	860708	1321					3	1
18	615	860708	1342	2	4	5	0	3	3
18	615	860708	1412	2	3	4	0	5	3
18	615	860708	1442	7	7	9	0	3	4
18	615	860708	1515	0	2	7	0	3	3
18	615	860708	1541	1	11	11	0	3	3

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
18	615	860708	1611					3	3
18	615	860708	1641	2	2	4	0	3	3
	MINIMUM			0.00	2.00	4.00	0.00	3.00	1.00
	MAXIMUM			7.00	21.00	14.00	0.00	5.00	4.00
	MEAN			2.50	7.25	8.33	0.00	3.43	2.14
	STD. DEV.			2.10	5.93	3.22	0.00	0.62	1.06
	n			12	12	12	12	14	14
18	615	861001	1015	1	13	1	0	1	2
18	615	861001	1041	3	33	1	2	0	0
18	615	861001	1112	3	26	2	2	1	2
18	615	861001	1142	4	26	2	1	1	0
18	615	861001	1212	1	0	0	0	1	0
18	615	861001	1242	6	16	2	1	1	2
18	615	861001	1312	2	4	0	1	2	2
18	615	861001	1342	2	18	0	1	1	2
18	615	861001	1412	2	23	2	1	1	2
18	615	861001	1442	1	1	0	0	2	2
18	615	861001	1512	1	14	0	0	1	2
18	615	861001	1542	1	20	1	0	2	2
18	615	861001	1612	1	21	1	0	1	0
18	615	861001	1642	1	10	1	0	0	0
	MINIMUM			1.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			6.00	33.00	2.00	2.00	2.00	2.00
	MEAN			2.07	16.07	0.93	0.64	1.07	1.29
	STD. DEV.			1.44	9.48	0.80	0.72	0.59	0.96
	n			14	14	14	14	14	14
132	0	860521	945	0	0	0	0	0	0
132	0	860521	1643	0	0	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MEAN			0.00	0.00	0.00	0.00	0.00	0.00
	STD. DEV.			0.00	0.00	0.00	0.00	0.00	0.00
	n			2	2	2	2	2	2
132	0	860708	1000	0	0	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MEAN			0.00	0.00	0.00	0.00	0.00	0.00
	STD. DEV.			0.00	0.00	0.00	0.00	0.00	0.00
	n			1	1	1	1	1	1
132	0	861001	944	0	0	0	0	0	0

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
132	0	861001	1655	0	0	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MEAN			0.00	0.00	0.00	0.00	0.00	0.00
	STD. DEV.			0.00	0.00	0.00	0.00	0.00	0.00
	n			2	2	2	2	2	2
203	0	860521	1000	0	0	0	0	0	0
203	0	860521	1030	0	0	0	0	0	0
203	0	860521	1100	0	0	0	0	0	0
203	0	860521	1130	0	0	0	0	0	0
203	0	860521	1200	0	0	0	0	0	0
203	0	860521	1232	0	0	0	0	0	0
203	0	860521	1300	0	0	0	0	0	0
203	0	860521	1331	0	0	0	0	0	0
203	0	860521	1400	0	0	0	0	0	0
203	0	860521	1430	0	0	0	0	0	0
203	0	860521	1500	0	4	0	0	0	0
203	0	860521	1531	0	0	0	0	0	0
203	0	860521	1600	0	11	8	0	0	0
203	0	860521	1630	0	0	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			0.00	11.00	8.00	0.00	0.00	0.00
	MEAN			0.00	1.07	0.57	0.00	0.00	0.00
	STD. DEV.			0.00	2.94	2.06	0.00	0.00	0.00
	n			14	14	14	14	14	14
203	0	860708	1000	0	3	5		0	0
203	0	860708	1030	0	1	3	0	0	0
203	0	860708	1100	0	4	3	0	0	0
203	0	860708	1131	0	7	2	0	0	0
203	0	860708	1205	1	8	9	0	0	0
203	0	860708	1232	0	7	3	0	0	0
203	0	860708	1301	0	0	0	0	0	0
203	0	860708	1330	0	9	13	0	0	0
203	0	860708	1400	2	5	0	0	0	0
203	0	860708	1430	1	3	2	0	0	0
203	0	860708	1500	1	4	12	0	0	0
203	0	860708	1530	1	10	20	0		
203	0	860708	1600	0	9	13	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			2.00	10.00	20.00	0.00	0.00	0.00
	MEAN			0.46	5.38	6.54	0.00	0.00	0.00
	STD. DEV.			0.63	3.08	6.00	0.00	0.00	0.00
	n			13	13	13	12	12	12

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
203	0	861001	1000	0	2	1	0	0	0
203	0	861001	1030	0	0	0	0	0	0
203	0	861001	1100	6	112	8	3	0	0
203	0	861001	1130	0	1	0	0	0	0
203	0	861001	1200	2	13	2	10	0	0
203	0	861001	1230	18	300	28	11	0	0
203	0	861001	1300	0	0	0	0	0	0
203	0	861001	1330	2	23	0	2	0	0
203	0	861001	1400	8	25	9	4	0	0
203	0	861001	1430	0	0	0	0	0	0
203	0	861001	1500	20	125	0	18	0	0
203	0	861001	1530	9	24	0	4	0	0
203	0	861001	1600	5	9	0	5	0	0
203	0	861001	1630	0	0	0	0	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		20.00	300.00	28.00	18.00	0.00	0.00
		MEAN		5.00	45.29	3.43	4.07	0.00	0.00
		STD. DEV.		6.48	80.82	7.41	5.23	0.00	0.00
		n		14	14	14	14	14	14
204	0	860521	1006	29	132	69	0	6	8
204	0	860521	1039	8	42	70	0	9	6
204	0	860521	1104	5	5	4	0	6	6
204	0	860521	1139	12	43	93	0	15	6
204	0	860521	1203	175	255	89	0	9	7
204	0	860521	1239	5	52	85	0	13	6
204	0	860521	1303	0	0	0	0	2	5
204	0	860521	1337	0	0	0	0	9	7
204	0	860521	1403	1	10	12	0	3	4
204	0	860521	1435	3	27	38	0	4	4
204	0	860521	1503	5	34	60	0	2	3
204	0	860521	1534	4	20	31	0	6	4
204	0	860521	1634	3	30	57	0	7	4
		MINIMUM		0.00	0.00	0.00	0.00	2.00	3.00
		MAXIMUM		175.00	255.00	93.00	0.00	15.00	8.00
		MEAN		19.23	50.00	46.77	0.00	7.00	5.38
		STD. DEV.		45.55	67.70	33.32	0.00	3.82	1.44
		n		13	13	13	13	13	13
204	0	860708	1015	3	4	6	0	6	5
204	0	860708	1042	4	11	15	0	2	2
204	0	860708	1110	6	34	41	0	7	6
204	0	860708	1142	7	12	15	0	4	3
204	0	860708	1214	5	20	18	0	4	3
204	0	860708	1240	14	82	64	0	6	5
204	0	860708	1312	25	16	20	0	6	5
204	0	860708	1340	195	115	70	112	12	5
204	0	860708	1410	18	40	45	0	10	7

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
204	0	860708	1440	10	20	32	0	7	5
204	0	860708	1510	9	30	32	0	3	2
204	0	860708	1540	44	83	72	6	6	4
204	0	860708	1610	4	15	29	4	5	4
204	0	860708	1645	7	14	23	0	5	5
	MINIMUM			3.00	4.00	6.00	0.00	2.00	2.00
	MAXIMUM			195.00	115.00	72.00	112.00	12.00	7.00
	MEAN			25.07	35.43	34.43	8.71	5.93	4.36
	STD. DEV.			48.32	32.38	20.56	28.70	2.52	1.39
	n			14	14	14	14	14	14
204	0	861001	1000	1	0	0	2	21	0
204	0	861001	1030	3	1	0	2	2	1
204	0	861001	1100	21	17	12	8	9	5
204	0	861001	1130	7	6	0	4	0	5
204	0	861001	1200	8	31	16	4	6	3
204	0	861001	1230	24	1	0	30	12	0
204	0	861001	1300	19	19	10	10	7	0
204	0	861001	1330	4	6	7	2	0	0
204	0	861001	1400	2	0	0	2	9	0
204	0	861001	1430	14	0	0	7	16	0
204	0	861001	1500	26	1	0	24	11	0
204	0	861001	1530	9	3	3	5	13	1
204	0	861001	1600	8	5	4	0	6	0
204	0	861001	1630	20	1	0	16	17	5
	MINIMUM			1.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			26.00	31.00	16.00	30.00	21.00	5.00
	MEAN			11.86	6.50	3.71	8.29	9.21	1.43
	STD. DEV.			8.32	8.98	5.22	8.69	6.08	2.03
	n			14	14	14	14	14	14
211	0	860521	1046	3	25	20	0	2	1
211	0	860521	1108	2	22	30	0	2	4
211	0	860521	1145	3	17	15	0	4	5
211	0	860521	1209	7	40	22	0	3	4
211	0	860521	1244	10	30	15	0	5	5
211	0	860521	1308	1	13	13	0	3	3
211	0	860521	1344	4	45	19	0	0	4
211	0	860521	1407	0	8	5	0	1	2
211	0	860521	1441	4	12	6	0	2	3
211	0	860521	1511	0	10	10	0	0	0
211	0	860521	1542	5	21	16	0	3	5
211	0	860521	1610	0	8	7	0	2	1
211	0	860521	1639	3	24	14	0	3	2

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
	MINIMUM			0.00	8.00	5.00	0.00	0.00	0.00
	MAXIMUM			10.00	45.00	30.00	0.00	5.00	5.00
	MEAN			3.23	21.15	14.77	0.00	2.31	3.00
	STD. DEV.			2.81	11.31	6.74	0.00	1.38	1.62
	n			13	13	13	13	13	13
211	0	860708	1000	9	19	9	0	2	2
211	0	860708	1030	2	24	10	0	2	0
211	0	860708	1059	5	4	12	0	2	0
211	0	860708	1130					2	0
211	0	860708	1200	5	26	12	0	2	0
211	0	860708	1230	4	51	12	0	2	0
211	0	860708	1300	2	3	2	0	2	0
211	0	860708	1330	2	10	12	0	2	0
211	0	860708	1400	4	13	9	0	3	2
211	0	860708	1430	0	8	7	0	3	2
211	0	860708	1500	2	6	3	0	2	1
211	0	860708	1530	0	3	5	0	1	0
211	0	860708	1600	1	8	13	0	1	0
211	0	860708	1630	3	8	15	0	2	0
211	0	860708	1700	0	2	5	0	0	0
	MINIMUM			0.00	2.00	2.00	0.00	0.00	0.00
	MAXIMUM			9.00	51.00	15.00	0.00	3.00	2.00
	MEAN			2.79	13.21	9.00	0.00	1.87	0.47
	STD. DEV.			2.40	12.83	3.87	0.00	0.72	0.81
	n			14	14	14	14	15	15
211	0	861001	1000	2	17	5	0	2	
211	0	861001	1030	3	27	10	1	2	2
211	0	861001	1100					3	
211	0	861001	1130	0	0	0	0	2	2
211	0	861001	1200					2	0
211	0	861001	1230	2	12	1	2	1	0
211	0	861001	1300	4	23	0	2	2	3
211	0	861001	1330	2	2	0	1	3	2
211	0	861001	1400	2	28	0	1	2	
211	0	861001	1430	21	7	0	15	3	
211	0	861001	1500	3	34	9	3	3	
211	0	861001	1530	3	29	7	1	3	2
211	0	861001	1600	10	48	13	9	3	
211	0	861001	1630	6	10	4	3	2	0

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
	MINIMUM			0.00	0.00	0.00	0.00	1.00	0.00
	MAXIMUM			21.00	48.00	13.00	15.00	3.00	3.00
	MEAN			4.83	19.75	4.08	3.17	2.36	1.38
	STD. DEV.			5.44	13.69	4.48	4.24	0.61	1.11
	n			12	12	12	12	14	8
215	0	860521	1011	0	0	0	0	0	0
215	0	860521	1043	0	0	0	0	0	0
215	0	860521	1106	0	0	0	0	0	0
215	0	860521	1142	0	0	0	0	0	0
215	0	860521	1207	0	0	0	0	0	0
215	0	860521	1241	4	25	46	0	0	0
215	0	860521	1306	0	0	0	0	0	0
215	0	860521	1341	0	0	0	0	0	0
215	0	860521	1405	0	0	0	0	0	0
215	0	860521	1438	0	0	0	0	0	0
215	0	860521	1508	0	0	0	0	0	0
215	0	860521	1539	0	0	0	0	0	0
215	0	860521	1608	0	0	0	0	0	0
215	0	860521	1636	0	3	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			4.00	25.00	46.00	0.00	0.00	0.00
	MEAN			0.29	2.00	3.29	0.00	0.00	0.00
	STD. DEV.			1.03	6.43	11.85	0.00	0.00	0.00
	n			14	14	14	14	14	14
215	0	860708	1010	0	0	9	0	0	0
215	0	860708	1037	0	0	6	0	0	0
215	0	860708	1106	0	0	11	0	0	0
215	0	860708	1137	0	0	3	0	0	0
215	0	860708	1210	0	0	0	0	0	0
215	0	860708	1239	0	0	0	0	0	0
215	0	860708	1308	0	0	0	0	0	0
215	0	860708	1335	0	0	3	0	0	0
215	0	860708	1405	2	0	5	0	0	0
215	0	860708	1435	1	0	0	0	0	0
215	0	860708	1505	0	0	0	0	0	0
215	0	860708	1535	0	0	0	0	0	0
215	0	860708	1605	0	0	0	0	0	0
215	0	860708	1639	0	0	0	0	0	0
	MINIMUM			0.00	0.00	0.00	0.00	0.00	0.00
	MAXIMUM			2.00	0.00	11.00	0.00	0.00	0.00
	MEAN			0.21	0.00	2.64	0.00	0.00	0.00
	STD. DEV.			0.56	0.00	3.62	0.00	0.00	0.00
	n			14	14	14	14	14	14

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
215	0	861001	1000	0	0	1	0	0	0
215	0	861001	1030	0	0	0	0	0	0
215	0	861001	1100	0	0	0	0	0	0
215	0	861001	1130	0	0	0	0	0	0
215	0	861001	1200	0	0	0	0	0	0
215	0	861001	1300	0	0	0	0	0	0
215	0	861001	1330	0	0	0	0	0	0
215	0	861001	1400	0	1	0	0	0	0
215	0	861001	1430	0	3	8	0	0	0
215	0	861001	1500	0	2	6	0	0	0
215	0	861001	1530	0	0	0	0	0	0
215	0	861001	1600	0	1	0	0	0	0
215	0	861001	1630	0	1	0	0	0	0
		MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
		MAXIMUM		0.00	3.00	8.00	0.00	0.00	0.00
		MEAN		0.00	0.62	1.15	0.00	0.00	0.00
		STD. DEV.		0.00	0.92	2.54	0.00	0.00	0.00
		n		13	13	13	13	13	13
217	0	860521	1023	1	11	13	0	9	13
217	0	860521	1049	7	3	3	0	5	4
217	0	860521	1118	3	19	7	0	4	6
217	0	860521	1148	1	1	0	0	4	4
217	0	860521	1216	1	7	6	0	2	2
217	0	860521	1247	10	31	28	0	4	4
217	0	860521	1309	0	10	6	0	3	8
217	0	860521	1348	220	16	13	0	3	4
217	0	860521	1409	1	12	8	0	3	2
217	0	860521	1444	2	12	9	0	5	4
217	0	860521	1517	2	5	5	0	3	2
217	0	860521	1546	0	11	8	0	5	4
217	0	860521	1612	10	60	19	0	5	8
217	0	860521	1642	2	3	2	0	5	4
		MINIMUM		0.00	1.00	0.00	0.00	2.00	2.00
		MAXIMUM		220.00	60.00	28.00	0.00	9.00	13.00
		MEAN		18.57	14.36	9.07	0.00	4.29	4.93
		STD. DEV.		55.96	14.68	7.07	0.00	1.62	2.89
		n		14	14	14	14	14	14
217	0	860708	1003	3	11	8	0	6	3
217	0	860708	1039	4	8	18	0	4	2
217	0	860708	1103	4	11	7	0	6	2
217	0	860708	1134	1	13	11	0	5	2
217	0	860708	1204	3	17	19	0	6	3
217	0	860708	1233	11	73	12	0	6	2
217	0	860708	1303	35	126	15	0	6	3
217	0	860708	1334	3	11	10	0	6	3
217	0	860708	1404	3	8	6	0	8	6

STATION	DISTANCE	DATE	TIME	HEXACHLORO-BENZENE ng/L	HEXACHLORO-BUTADIENE ng/L	HEXACHLORO-ETHANE ng/L	OCTACHLORO-STYRENE ng/L	TETRACHLORO-ETHYLENE ug/L	CARBONTETRA-CHLORIDE ug/L
217	0	860708	1434	2	5	3	0	7	5
217	0	860708	1504	0	22	12	0	5	5
217	0	860708	1533	14	19	8	0	4	5
217	0	860708	1604	10	41	14	0	5	5
217	0	860708	1634	2	16	11	0	5	5
		MINIMUM		0.00	5.00	3.00	0.00	4.00	2.00
		MAXIMUM		35.00	126.00	19.00	0.00	8.00	6.00
		MEAN		6.79	27.21	11.00	0.00	5.64	3.64
		STD. DEV.		8.76	32.28	4.34	0.00	1.04	1.39
		n		14	14	14	14	14	14
217	0	861001	1005	2	32	5	0	2	3
217	0	861001	1037	30	63	8	40	2	3
217	0	861001	1104	18	30	4	6	2	0
217	0	861001	1134	4	36	6	0	2	
217	0	861001	1204	4	11	2	0	2	
217	0	861001	1234	4	20	0	2	1	0
217	0	861001	1304	5	21	5	2	2	3
217	0	861001	1334	1	0	0	1	2	3
217	0	861001	1404	2	0	0	1	2	3
217	0	861001	1432	2	4	0	1	2	2
217	0	861001	1504					2	2
217	0	861001	1534	3	26	2	2	2	2
217	0	861001	1604	3	14	3	2	2	2
217	0	861001	1632	3	22	6	1	2	0
		MINIMUM		1.00	0.00	0.00	0.00	1.00	0.00
		MAXIMUM		30.00	63.00	8.00	40.00	2.00	3.00
		MEAN		6.23	21.46	3.15	4.46	1.93	1.92
		STD. DEV.		8.00	16.49	2.63	10.37	0.26	1.19
		n		13	13	13	13	14	12

APPENDIX 4.1

GC/MS RESULTS FOR CONTAMINANTS
MEASURED ON AMBIENT SUSPENDED SOLIDS

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (ARBITRARY) ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

	Field Sample #	5U336	5U337	RAFAS	5U276	5U333	5U338	5U276	5U277	5U287	5U257	5U258	5U440	5U339	5U280	5U288
	Station - Dist from CLAN SHORE	8 00 - 100 (Perch Creek)			25 - 1000 (3K 34.0, head)			25 - 3000 (3K 34.0, head)			132 - 100 (Downstream CR Tunnel)					
PARAMETER	Date / Depth	88JUL01 Surface	88JUL01 Bottom	88JUL15 MIU	88DEC15 CLAN - MIU	88JUL01 CLAN - MIU	88JUN08 CLAN - MIU	88DEC15 USA - MIU	88JUL01 USA - MIU	88JUN08 USA - MIU	88DEC15 Surface	88DEC15 Bottom	88JUL01 Surface	88JUL01 Bottom	88JUN08 Surface	88JUN08 Bottom
1,1,1-Trichloroethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1,2-Trichloroethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethylene		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,1-Dichloroethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloromethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichlorobenzene		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,2-Dichloroethane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	58	NA	ND	ND
1,2-Dichloroethylene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
1,2-Dichloropropane		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Anthracene/Phenanthrene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
Benzene		19	18	NA	15	14	5.6	11	17	5.1	27	22	10	NA	25	11
Benzo(a)anthracene/Chrysene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
Benzo(a)pyrene/Benzo(k) - Fluoranthene/Perylene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
Biphenyl		-	-	NA	-	-	-	-	-	-	ND	ND	-	NA	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTIPEDE SOLIDS (ARBITRARY) ng/g
Analysis performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

	Field Sample #	5U338	5U337	5U344	5U365	5U333	5U388	5U2G5	5U335	5U367	5U257	5U258	5U440	5U339	5U385	5U386
	Station - Dist from CUM shore	8 UB - 1UM (Perch Creek)			25 - 100M (SW 39 U, Head)			25 - 300M (SW 39 U, Head)			32 - 1UM (Downstream CM Tunnel)					
PARAMETER	Date / Depth	881U1 Surface	881U1 Bottom	881U15 MIU	88U315 LAN - MIU	88U101 LAN - MIU	881U06 LAN - MIU	88U315 USA - MIU	88U101 USA - MIU	881U06 USA MIU	88U311 Surface	88U311 Bottom	88U101 Surface	88U101 Bottom	881U06 Surface	881U06 Bottom
Bromoform		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	NU
Carbontetrachloride		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	NU
Chlorinated Unknown		-	-	-	-	-	-	-	-	-	-	-	-	NA	-	
Chlorobenzene		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	NU
Chlorodibromomethane		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	NU
Chloroform		31	NU	NA	27	42	94	28	58	94	NU	NU	NU	NA	12	18
1,4 Dichlorobenzene		-	-	NA	-	-	-	-	-	-	-	-		NA		
Dichlorobromomethane		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	NU
Dimethyl Disulfide		84	580	NA	-	1000	100	-	2400	52	-	-	-	NA	120	NU
Dimethyl Naphthalene		-		NA	-	-	-	-			-	-		NA		
Dimethyl Sulfide		NU	550	NA	-	180	380	-	160	220		-		NA	560	180
Diphenyl ether				NA		-		-	-		NU	NU		NA		
Ethylbenzene		NU	NU	NA	NU	NU	4 2	NU	NU	2 5	NU	NU	NU	NA	4 5	NU
Fluoranthene		-	-	NA	-			-					-	NA		
Heptachlorostyrene		-	-	NA					-	-				NA	-	

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTOLOGY SURVEY. (AMBIENT) ng/g
Analysis performed by GC/MS Volatile scan unless indicated by (* - extractable scan)

	Field Sample #	SU336	SU337	SU339	SU765	SU333	SU338	SU788	SU335	SU387	SU757	SU758	SU440	SU335	SU365	SU333
	Station - Dist from LUN Shore	8 UB - 10M (Perch Creek)			23 - 10UM (300 FT W, Head)			23 - 300M (300 FT W, Head)			132 - 10M (Downstream CN Tunnel)					
PARAMETER	Date / Depth	SU/UI Surface	SU/UI Bottom	SU/UI MIU	SU/UI LAM - MIU	SU/UI LAN - MIU	SU/UI LAM - MIU	SU/UI USA - MIU	SU/UI USA - MIU	SU/UI USA - MIU	SU/UI Surface	SU/UI Bottom	SU/UI Surface	SU/UI Bottom	SU/UI Surface	SU/UI Bottom
Hexachlorobenzene		-	-	NA	-	-	-	-	-	-	-	-	-	NA		
Hexachlorobutadiene		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	-	NA	NU	N
Hexachlorobutene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
Hexachloroethane		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
1,3 1,2-Dichlorobutene		IK	IK	NA	IK	IK	IK	IK	IK	IK	IK	IK	IK	NA	IK	*
1,3 Bromochloromethane		IK	IK	NA	IK	IN	IK	IK	IK	IK	IK	IK	IK	NA	IK	*
Methyl Benzo(a)anthracene		-	-	NA	-	-	-	-	-	-	-	-	-	NA		
Methyl Diphenyl		-	-	NA	-	-	-	-	-	-	NU	NU	-	NA	-	-
Methyl fluoranthene		-	-	NA	-	-	-	-	-	-	-	-	-	NA	-	-
Methyl naphthalene		-	-	NA	-	-	-	-	-	-	NU	NU	-	NA	-	-
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene		NU	NU	NA	NU	NU	NU	NU	NU	NU	NU	NU	NU	NA	NU	N
Naphthalene		-	-	NA	-	-	-	-	-	-	-	-	-	NA		
Octachlorocyclopentene		-	-	NA	-	-	-	-	-	-	-	-	-	NA		
Octachlorostyrene		-	-	NA	-	-	-	-	-	-	-	-	-	NA		

SUMMARY OF VOLATILE MEDIUM PRIOR TO CLEAN RIVER CENTRIFUGED SOLIDS (CONTINUED) ng/g
Analysis Performed By GC/MS Volatile Scan unless indicated By (* = Extractable Scan)

	Field Sample #	SU330	SU331	SU332	SU265	SU333	SU388	SU266	SU335	SU336	SU267	SU268	SU446	SU339	SU385	SU340
	Station - DIST From CUN Shore	0.06 - NUN (Perch Creek)			2.5 - NUDE (Oak Bay O, Head)			2.5 - 3.0BE (Oak Bay O, Head)					1.5 - 1.7BM (Downstream CM Tunnel)			
PARAMETER	Date Depth	08/07/01 Surface	08/07/01 Bottom	08/07/01 MIU	08/07/15 CAN - MIU	08/07/01 CAN - MIU	08/07/01 CAN - MIU	08/07/15 USA - MIU	08/07/01 USA - MIU	08/07/01 USA - MIU	08/07/15 Surface	08/07/15 Bottom	08/07/2 Surface	08/07/2 Bottom	08/07/2 Surface	08/07/2 Bottom
Dichlorobenzene		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Pentachlorobenzene		-	-	NA				-						NA	-	
Pentachlorobutadiene		-	-	NA							ND	ND		NA		
Pentachloroethane		-	-	NA				-	-	-	-	-	-	NA		
Styrene		-	-	NA	-	-	-	-	-	-			-	NA		
Tetrachlorobenzene		-	-	NA							-	-	-	NA	-	
Tetrachlorobutadiene		-	-	NA		-					ND	ND		NA		
Tetrachloroethylene		ND	ND	NA	15	ND	ND	21	ND	ND	10	22	ND	NA	3.8	
Trichlorobutadiene		-		NA	-	-	-	-	-	-	ND	ND	-	NA		
Trichloroethylene		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	*
Trichlorobenzene		-		NA		-								NA		
Toluene		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	*

Legend

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SEDIMENTOLOGY SURVEY. (AMBIENT) ng/g
Analysis Performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	86338	86337	86339	86285	86286	86280	86283	86287	86279	86278	86344	86339	86285	86288
	Station - Dist from LSM Shore	8 Mb - 1Mm (Kercn Creek)			23 - 100M (3M E of W. Head)			23 - 300M (3M E of W. Head)				1.. - .e (Downstream .. Tunnel)			
	Date	86/07/01	86/10/3	86/05/15	86/07/01	86/10/06	86/05/15	86/07/01	86/10/06	86/05/11		86/07/01		86/10/06	
PARAMETER	Depth	Surface	Bottom	MIU	L4N - MIU	L4N - MIU	L4K - MIU	USA - MIU	USA - MIU	USA - MIU	: Surface	Bottom	Surface	Bottom	Surface	Bottom
==========																

- compound not listed on data report
NU Compound listed but not detected
TR trace amount
* Result from analysis by GC/MS Extractable method
MDL Typically 1 ng/g
NA Not Analyzed
+ Present not quantitated (interferences present)
(#) Number of compounds

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER ENTRAINMENT SURVEYS (AMBIENT) ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* - extractable scan)

	Field Sample #	5U235	5U236	5U304	5U305	5U395	5U396	5U253	5U254	5U382	5U383	5U397	5U398	5U251	5U252	5U359	5U360	5U393	5U394
	Station - Dist From CWN Shore	203 - 88m (10 m D/S of Coke drain pipe)						208 - 10m (800 ft D/S of 1st St Sewers)						211 - 10m (250 ft D/S of CWC)					
PARAMETER	Date / Depth	880514		880714		881011		880511		880714		881012		880511		880714		881010	
		Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1,1,1-Trichloroethane		ND	ND	ND	ND	NA	ND	ND	ND	51	ND	NA	ND	ND	ND	11	ND	NA	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,1-Dichloroethylene		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,1-Dichloroethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,2-Dibromomethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,2-Dichlorobenzene		ND	ND	ND	I	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,2-Dichloroethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
1,2-Dichloroethylene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
1,2-Dichloropropane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Anthracene/Phenanthrene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Benzene		29	17	21	23	NA	14	38	32	85	67	NA	15	32	29	22	31	NA	17
Benzo(a)anthracene/Chrysene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Benzo(a)pyrene/Benzo(k) - fluoranthene/Perylene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Biphenyl		ND	ND	-	-	NA	-	ND	ND	-	-	NA	-	ND	43	-	-	NA	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTOLOGY SURVEY (AMBIENT) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	30255	30256	30304	30305	30393	30396	30253	30254	30382	30383	30397	30398	30251	30252	30355	30380	30393	30394
	Station - Dist From CDM Shore	203 - 0m (10 m q/s of Colm drain pipe)						208 - 10m 800 ft q/s of 1st St. sewers)								211 - 10m (250 ft O/S of 210)			
PARAMETER	Date / Depth	880511 Surface	880511 Bottom	880714 Surface	880714 Bottom	881011 Surface	881011 Bottom	880511 Surface	880511 Bottom	880714 Surface	880714 Bottom	881012 Surface	881012 Bottom	880511 Surface	880511 Bottom	880714 Surface	880714 Bottom	881011 Surface	881011 Bottom
Bromoform		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Carbontetrachloride		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Chlorinated Unknown		-	-	ND	4.5	NA	-	-	-	ND	ND	NA	-	-	-	ND	ND	NA	-
Chlorobenzene		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Chlorodibromomethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Chloroform		ND	ND	35	31	NA	ND	ND	3*	4.5	30	NA	15	ND	ND	82	3*	NA	18
o Dichlorobenzene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Dichlorobromomethane		ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND
Dimethyl Disulfide		-	-	1000	300	NA	-	-	-	4200	2300	NA	-	-	-	1400	110	NA	-
Dimethyl Naphthalene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Dimethyl Sulfide		-	-	310	2600	NA	-	-	-	540	130	NA	-	-	-	280	2300	NA	-
Diphenyl ether		ND	ND	-	-	NA	-	ND	ND	-	-	NA	-	ND	ND	-	-	NA	-
Ethylbenzene		ND	ND	ND	ND	NA	ND	ND	0.5	2.3	ND	NA	ND	0.5	ND	ND	ND	NA	ND
Fluoranthene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-			NA	-
Heptachlorostyrene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER CENTRIBUCED SEDIMENTS (AMBIENT) ng/g
Analysis performed by QC/MS volatile scan unless indicated by (* - extractable scan)

Field Sample #	86U755	86U756	86U804	86U805	86U793	86U794	86U753	86U754	86U802	86U803	86U797	86U796	86U75	86U752	86U759	86U800	86U793	86U794
Station - Dist from LUN shore	203 - 85M (110 m S/S of Cole drain pipe)								206 - 10M (600 ft S/S of 1st St sewers)						211 - 9M (750 ft S/S of 210)			
Date	86JUL11		86JUL14		86JUL11		86JUL11		86JUL14		86JUL12		86JUL11		86JUL14		86JUL10	
PARAMETER Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
Hexachlorobenzene	-	-	38	ND	NA	-	-	-	ND	91	NA				ND	ND	NA	
Hexachlorobutadiene	180	480	11	5200	NA	37	370	430	8800	4400	NA	ND	54	49	830	450	NA	3
Hexachlorobutane	-	-	-	-	NA		-	-	-	-	NA				-	-	NA	
Hexachloroethane	-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
1,3,3,3-Tetrachlorobutane	IK	IK	IK	IK	NA	IK	IK	IK	-		NA	IK	IK	IK	IK	IK	NA	K
1,3-Dibromochloroethane	IK	IK	IK	IK	NA	IK	IK	IK	IK	IK	NA	IK	IK	IK	IK	IK	NA	IK
Methyl benzo(a)anthracene	-			-	NA				IK	IK	NA						NA	
Methyl Biphenyl	ND	ND			NA		ND	ND			NA		93	ND			NA	
Methyl fluoranthene	-	-	-	-	NA	-	-	-	-		NA					-	NA	-
Methyl naphthalene	25	ND		-	NA		ND	19			NA	-	ND	ND	-		NA	
Methylene Chloride	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
m Xylene	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
Naphthalene	-	-	-	-	NA						NA	-	-		-		NA	
Octachlorocyclopentene	-	-			NA	-				-	NA						NA	-
Octachlorostyrene	-	-		-	NA	-				-	NA	-	-				NA	

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTOLOGY SOLIDS (AMBIENT) ng/g
Analysis Performed By GC/MS Volatile scan unless indicated by (* - Extractable scan)

	Field Sample #	50255	50256	50364	50365	50395	50396	50253	50254	50382	50383	50397	50398	50251	50252	50359	50360	50393	50394
	Station - Dist From CDN Shore	203 - 88m (10 m d/s of Cole drain pipe)						206 - 10m (800 ft d/s of 1st St. sewers)						211 - 10m (250 ft d/s of 210)					
	Date	88DEC11		88JAN14		88JAN17		88DEC11		88JAN14		88JAN17		88DEC11		88JAN14		88JAN16	
PARAMETER	Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
o- or p-Xylene		NU	NU	NU	NU	NA	NU	NU	NU	NU	NU	NA	NU	NU	NU	NU	NU	NA	NU
Pentachlorobenzene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Pentachlorobutadiene		24	4	NU	190 (J)	N4	-	-	-	700 (J)	140 (J)	NA	-	NU	NU	NU	NU	NA	-
Pentachlorobutene		-	-	-	-	NA	-	130 (J)	4 (J)	-	-	NA	-	-	-	-	-	NA	-
Pyrene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Styrene		-	-	-	-	N4	-	-	-	-	-	NA	-	-	-	-	-	-	-
Tetrachlorobenzene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	-
Tetrachlorobutadiene		NU	NU	NU	49	NA	-	130 (J)	4	-	-	NA	-	NU	NU	NU	13	NA	-
Tetrachloroethylene		25	28	NU	34	NA	47	85	11	2800	280	NA	NU	47	19	15	38	NA	38
Trichlorobutadiene		NU	NU	-	-	NA	-	15	NU	870 (J)	140	NA	-	NU	NU	-	-	NA	-
Trichloroethylene		NU	NU	NU	NU	NA	NU	NU	NU	NU	NU	NA	NU	NU	NU	NU	NU	NA	NL
Trichlorobenzene		-	-	-	-	NA	-	-	-	-	-	NA	-	-	-	-	-	NA	
Toluene		NU	NU	NU	NU	NA	2800	NU	NU	NU	NU	NA	2000	NU	NU	NU	NU	NA	2700

Legend

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (AMBIENT) ng/g

Analysis Performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	50255	50256	50364	50365	50395	50396	50253	50254	50362	50363	50391	50398	50251	50252	50359	50360	50393	50394
	Station - Dist	203 - 60m						206 - 10m						211 - 10m					
	From CDN Shore	(10 m O/S of Cole Drain pipe)						(600 ft O/S of 1st St. sewers)						(1.50 ft O/S of 210)					
	Date	88U511		88U714		88U811		88U511		88U714		88U812		88U511		88U714		88U810	
PARAMETER	Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
==========																			

- compound not listed on data report

NU compound listed but not detected

TR trace amount

* Result from analysis by GC/MS extractable method

MDL typically 1 ng/g

NA Not Analyzed

P Present not quantitated (interferences present)

(#) Number of compounds

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTOUBED SOLIDS. (AMBIENT) ng/g
Analysis Performed By GC/MS Volatile scan unless indicated By (* - Extractable scan)

	Field Sample #	5U243	5U250	5U258	5U257	5U261	5U262	5U344	5U350	5U265	5U268	5U253	5U254	5U271	5U316	5U281	5U343
	Station - Dist From LDM Shore	21B - 10m (3K 33.8)						21B - 7m (3K 33.8)		18 - 10m (3K 33.4)						18 - 7m (3K 33.8)	
PARAMETER	Date / Depth	88U511 Surface	88U511 Bottom	88U514 Surface	88U514 Bottom	88U515 Surface	88U515 Bottom	88U506 Surface	88U506 Bottom	88U507 Surface	88U507 Bottom	88U513 Surface	88U513 Bottom	88U505 Surface	88U505 Bottom	88U513 Surface	88U508 Surface
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene/Phenanthrene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene		17	14	19	52	16	15	17	19	12	18	18	12	43	28	31	13
Benzo(a)anthracene/Chrysene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene/Benzo(k) - fluoranthene/Perylene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl		-	-	-	-	-	-	39	-	ND	62	53	440	-	-	-	-

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER CENTRIFUGED SOLIDS (AMBIENT) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

Field Sample #	SU249	SU250	SU258	SU259	SU381	SU382	SU344	SU390	SU205	SU206	SU253	SU254	SU377	SU378	SU35	SU389
Station - Dist From LUM Shore			7/8 - 1UM (3M 33 8)				7/8 - 1M (3M 33 8)				1B - 1UM (3M 33 4)				1B - 1M (3M 33 4)	
PARAMETER / Date / Depth	86USII Surface	86USII Bottom	86UII4 Surface	86UII4 Bottom	86IU05 Surface	86IU05 Bottom	86UIU8 Surface	86IU06 Bottom	86USU7 Surface	86USU7 Bottom	86UII3 Surface	86UII3 Bottom	86IU03 Surface	86IU03 Bottom	86UII5 Surface	86IU08 Surface
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbontetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Unknown	-	-	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	-
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	16	68U	ND	122	84	69	ND	33	34	13	43	65	110	120	38	12U
o Dichlorobenzene	-	-	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Disulfide	-	-	78U	13U	11U	22U	79U	13	-	-	46	20U	170U	33U	32U	20U
Dimethyl Naphthalene	-	-	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-
Dimethyl Sulfide	-	-	67	10U	120U	100U	11U	57U	-	-	23U	ND	24U	120U	53U	44U
Diphenyl ether	23U	62U	-	-	-	-	1K	-	ND	11B	61	84U	-	-	-	-
Ethylbenzene	4 2	16	ND	ND	ND	U 4	4 2	U 3	ND	6 2	3 3	ND	U 9	ND	ND	3 5
Fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorostyrene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTS SURVEY (AMBIENT) ng/g
Analysis performed by GC/MS Volatile scan unless indicated by (* - extractable scan)

	Field Sample #	30749	30750	30758	30757	30761	30762	30744	30759	30765	30766	30753	30754	30777	30778	30781	30783
	Station - Dist From Cum Shore	210 - 1um (3K 33.8)						211 - 1um (3K 33.8)		18 - 1um (3K 33.4)						19 - 1m (3K 33.4)	
PARAMETER	Date / Depth	880511 Surface	880511 Bottom	880514 Surface	880514 Bottom	881003 Surface	881003 Bottom	881008 Surface	881008 Bottom	880907 Surface	880907 Bottom	881013 Surface	881013 Bottom	881003 Surface	881003 Bottom	881015 Surface	881008 Surface
Hexachlorobenzene		-	-	ND	ND	-	-	ND	-	-	-	ND	450	-	-	ND	-
Hexachlorobutadiene		-	-	2700	510	50	200	820	100	85	550	480	800	170	39	500	100
Hexachlorobutene		-	-	-	-	-	-	ND	-	-	-	ND	ND	-	-	-	-
Hexachloroethane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3 1,3-Dichloropropene		1K	1K	-	-	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K
1,3 Bromochloromethane		1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K	1K
Methyl benzo(a)anthracene		-	-	1K	1K	-	-	-	-	-	-	-	-	-	-	-	-
Methyl biphenyl		590 (J)	880 (J)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl fluoranthene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl naphthalene		10	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m-Xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorocyclopentene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorostyrene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (AMBIENT) ng/g
Analysis performed by OCAPS Volatile scan unless indicated by (* - extractable scan)

PARAMETER	Field Sample #	30U49	30U50	30U58	30U57	30U81	30U82	30U44	30U90	30U05	30U06	30U53	30U54	30U11	30U10	30U61	30U89
	Station - Dist From CUM Shore			21b - 10m (SK 33 8)				21b - 1m (SK 33 8)				1B - 10m (SK 33 4)				1b - 1m (SK 33 4)	
	Date	88USII		88UF14		88U100		88UF08	88U006			88USU7		88UF13		88U103		88UF15	88U106
	Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Surface
o- or p-Xylene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU		NU	NU
Pentachlorobenzene		-	-	-	-	-	-	NU	-	-	-	NU	16	-	-	-		-	-
Pentachlorobutadiene		8 J	+ (J)	32	NU	-	-	-	-	-	-	NU	NU	NU	NU	NU		NU	-
Pentachlorobutene		-	-	-	-	NU	NU	89 (J)	-	-	-	-	-	-	-	-		-	-
Pyrene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
Styrene		-	-	-	-	NU	NU	-	-	NU	34	-	-	NU	NU				
Tetrachlorobenzene				-	-	-	-	NU	-	-	-	NU	NU						
Tetrachlorobutadiene		NU	+	20	NU	NU	NU	88	-	NU	11	NU	NU	NU	NU	NU		-	
Tetrachloroethylene		415	2900	58	440	11	56	124	11	51	255	32	10	640	14	32		NU	NU
Trichlorobutadiene		NU	NL			-	-	NU	-	-	-	NU	NU	-	-	-		-	-
Trichloroethylene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU		NU	NU
Trichlorobenzene		-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-
Toluene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU		NU	NU

Legend

SUMMARY OF VOLATILE RESULTS FROM 1986 SI CLAIR RIVER SEDIMENTED SOLIDS: (Amolthi) ng/g
Anaylsis Performed by GC/MS Volatile scan unless indicated by (* - extractable scan)

	Field Sample #	50249	50250	50356	50357	50381	50382	50344	50390	50205	50206	50353	50354	50377	50378	50361	50369
	Station - Dist			210 - 1um				210 - 1m				18 - 1um				18 - m	
	From CLN Shore			(3K 33.8)				(3K 33.8)				(3K 33.4)				(3K 33.4	
	Date	86U511		86U514		86U005		86U108	86100B	86U507		86U713		86100S		86U715	86100B
PARAMETER	Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Surface
==========		==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========	==========

- Compound not listed on data report
NU Compound listed but not detected
TR trace amount
* Result from anaysis by GC/MS Extractable method
MDL Typically 1 ng/g
NA not Analyzed
+ Present not quantitated (Interferences present)
(#) Number of compounds

Summary of volatile results from Type 27 class river sediments (amolitem) ng/g
Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

	Field Sample #	30201	30208	30242	30243	30245	30246	30268	30254	30260	30261	30255	30259
	Station	West		27A - NW					27A - NEW			27A - SSW	
	From LUN shore			(3K 31 1, d/s of Telford Ck)					(3K 12 S)			(3K 1A S)	
	Date	88/30/01		88/01/08		88/01/03		88/31/15	88/01/01	88/01/03	88/31/15	88/01/01	88/01/03
PARAMETER	Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	LAN - MIU	LAN - MIU	LAN - MIU	USA - MIU	USA - MIU	USA - MIU
1,1,1-Trichloroethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,1,2,2-Tetrachloroethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,1,2-Trichloroethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,1-Dichloroethylene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,2-Dibromomethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,2-Dichlorobenzene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
1,2-Dichloroethylene		-	-	-	-	-	-	-					
1,2-Dichloropropane		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Anthracene/Phenanthrene		-	-	-	-	-	-	-	-	-	-		
Benzene		15	22	20	16	30	31	12	15	17	14	15	23
Benzo(a)anthracene/Chrysene		-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene/Benzo(k) - fluoranthene/Perylene		-	-	-	-	-	-	-				-	
Biphenyl		NU	143	NU	NU	-						-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER SEDIMENTS SURVEY (AMBIENT) ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

	Field Sample #	SU207	SU208	SU342	SU343	SU375	SU376	SU288	SU334	SU380	SU261	SU338	SU379
	Station - Dist From CDN Shore	(SR 31 1; d/s of Walford Clk.)											
PARAMETER	Date / Depth	880501 Surface	880501 Bottom	880708 Surface	880708 Bottom	881005 Surface	881005 Bottom	880515 LAN - MID	880701 LAN - MID	881003 LAN - MID	880515 USA - MID	880701 USA - MID	881003 USA - MID
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbontetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Unknown		-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		20	23	19	39	72	150	12	30	80	30	35	47
o Dichlorobenzene		ND	3 D *	-	-	-	-	-	-	-	-	-	-
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Disulfide		-	-	930	ND	2100	440	-	710	80	-	590	47
Dimethyl Naphtalene		ND	189	-	-	-	-	-	-	-	-	-	-
Dimethyl Sulfide		-	-	50	ND	280	850	-	110	330	-	320	450
Diphenyl ether		13	338	ND	ND	-	-	11 *	-	-	ND	-	-
Ethylbenzene		4 4	417	ND	ND	ND	0.5	ND	ND	0 7	ND	ND	ND
Flouranthene		-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorostyrene		-	-	-	-	-	-	-	-	-	-	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 S[illegible]LAIK RIVER SEDIMENT SOLIDS (AMBIENT) ng/g
Analysis performed by GLNPO, Volatile scan unless indicated by (* - Extractable scan)

Field Sample #		5U107	5U108	5U342	5U343	5U515	5U516	5U2B8	5U334	5U380	5U287	5U338	5U379
Station - Dist from LWA Shore				21B - 1WM (3K 31 1, 0/S of Milford CK)					21A - 12WM (3K 12 W)			21A - 55WM (3K 12 W)	
PARAMETER	Date Begin	88U307 Surface	88U307 Bottom	88U708 Surface	88U708 Bottom	88U005 Surface	88U005 Bottom	88U015 LAN - MID	88U701 LAN - MID	88U005 LAN - MID	88U315 USA - MID	88U701 USA - MID	88U005 USA - MID
Hexachlorobenzene		-	-	NU	NU	-	-	-	-	-	-	-	-
Hexachlorobutadiene		11	55B	110	200	940	23	34 *	120	8	NU	NU	NU
Hexachlorobutene		-	-	NU	NU	-	-	-	-	-	-	-	-
Hexachloroethane		-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobutane		IK	IK	IK	IK	IK	IK	IK	IK	IK	IK	IK	IK
1,3-Dibromochloroethane		IK	IK	IK	IK	IK	IK	IK	IK	IK	IK	IK	IK
Methyl Benzo(a)anthracene		-	-	-	-	-	-	-	-	-	-	-	-
Methyl Biphenyl		-	-	-	-	-	-	-	-	-	-	-	-
Methyl Fluoranthene		-	-	-	-	-	-	-	-	-	-	-	-
Methyl Naphthalene		-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M-Xylene		NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
Naphthalene		-	-	-	-	-	-	-	-	-	-	-	-
Octachlorocyclopentane		-	-	-	-	-	-	-	-	-	-	-	-
Octachlorostyrene		-	-	-	-	-	-	-	-	-	-	-	-

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER REMEDIATED SOLIDS. (AMBIENT) ng/g
Analysis Performed By GC/MS Volatile Scan Unless Indicated By (* - Extractable Scan)

	Field Sample #	50207	50208	50347	50343	50375	50376	50208	50334	50380	50281	50338	50319
	Station - Dist From LUM Shore	(SK 31.1; d/s of Telford Lk.)		218 - 10m				(SK 12 W)	218 - 120m		(SK 12 W)	218 - 550m	
PARAMETER	Date / Depth	880507 Surface	880507 Bottom	880708 Surface	880708 Bottom	881005 Surface	881005 Bottom	880515 LAN - MIU	880701 LAN - MIU	881005 LAN - MIU	880515 USA - MIU	880701 USA - MIU	881005 USA - MIU
o- or p-Xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorobenzene		-	-	ND	ND	-	-	-	-	-	-	-	-
Pentachlorobutadiene		-	-	ND	ND	ND	ND	-	-	ND	-	-	ND
Pentachlorobutene		-	-	-	-	-	-	-	-	-	-	-	-
Pyrene		-	-	-	-	-	-	-	-	-	-	-	-
Styrene		ND	126	-	-	ND	ND	-	-	ND	-	-	ND
Tetrachlorobenzene		-	-	ND	ND	-	-	-	-	-	-	-	-
Tetrachlorobutadiene		ND	+	ND	ND	ND	ND	-	-	ND	-	-	ND
Tetrachloroethylene		44	274	20	12	20	14	42	ND	ND	42	ND	ND
Trichlorobutadiene		-	-	ND	ND	-	-	-	-	-	-	-	-
Trichloroethylene		ND.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorobenzene		-	-	-	-	-	-	-	-	-	-	-	-
Toluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend

SUMMARY OF VOLATILE RESULTS FROM 1988 ST. CLAIR RIVER CENTRIFUGED SOLIDS (AMBIENT) ng/g

Analysis performed by GC/MS volatile scan unless indicated by (* - extractable scan)

Field Sample #	502U1	502U8	503J47	503J43	503J15	503J16	502U9	503J34	503U8	502U7	503J38	503J39
Station - Dist from LDN Shore		(SK 31 1; d/s of Telford Ck)		718 - 10m				717 - 717 (SK 12 W)			716 - 55m (SK 12 W)	
Date	88U5U7		88U7U8		88U9U3		88U5I5	88U7U1	88U9U5	88U5I5	88U7U1	88U9U5
PARAMETER Depth	Surface	Bottom	Surface	Bottom	Surface	Bottom	LAM - MIU	LAM - MIU	LAM - MIU	USA - MIU	USA - MIU	MIU - USA

- compound not listed on data report
NU compound listed but not detected
TR trace amount
* result from anayisis by GC/MS extractable method
MDL typically 1 ng/g
NA not Analyzed
+ Present not quantitated (interferences present)
(#) Number of ~~compounds~~ isomers

APPENDIX 4.2

CONVENTIONAL RESULTS FROM AMBIENT CENTRIFUGATION

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE OEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
15	7	0	50235	860514	2	4.00	220.00	13.00	7	40.00	0.00	0.00	0.00
15	7	0	50236	860514	2	2.00	125.00	9.00	0	3.00	0.00	0.00	0.00
15	7	0	50855	861001	0.1								
15	7	0	50856	861001	0	22.00	2400.00	0.00	14	60.00	0.00	5.00	0.00
				MINIMUM		2.00	125.00	0.00	0	3.00	0.00	0.00	0.00
				MAXIMUM		22.00	2400.00	13.00	14	60.00	0.00	5.00	0.00
				MEAN		9.33	915.00	7.33	7.00	34.33	0.00	1.67	0.00
				STD. DEVIATION		8.99	1050.77	5.44	5.72	23.61	0.00	2.36	0.00
				n		3	3	3	3	3	3	3	3
15	18	625	50203	860507	1	3.00	2.00	1.00	0	0.00	2.00	0.00	0.00
15	18	625	50202	860507	5.4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	18	625	50201	860507	1	0.00	8.00	12.00	0	0.00	4.00	0.00	0.00
15	18	625	50204	860507	5.4	0.00	5.00	5.00	0	0.00	3.00	3.00	0.00
15	18	545	53222	860713	1	2.00	5.00	3.00	0	0.00	0.00	0.00	0.00
15	18	545	53223	860713	7.8	6.00	11.00	3.00	5	0.00	0.00	0.00	0.00
15	18	635	53229	860716	1	1.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	18	615	51859	861003	1	2.00	14.00	8.00	0	1.00	0.00	0.00	0.00
15	18	615	51860	861003	7.8	4.00	11.00	0.00	0	0.00	0.00	0.00	0.00
15	18	635	51869	861008	1.5	0.00	0.00	1.00	0	0.00	0.00	0.00	0.00

PPENDIX 4.2:
ENTRIFUGING: SUSPENDED SOLIDS
MBIENT DATA PARAMETER REPORT

ODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		6.00	14.00	12.00	5	1.00	4.00	3.00	0.00
				MEAN		1.80	5.60	3.30	0.50	0.10	0.90	0.30	0.00
				STD. DEVIATION		1.94	4.92	3.80	1.50	0.30	1.45	0.90	0.00
				n		10	10	10	10	10	10	10	10
15	25	330	50241	860515	3	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	330	50242	860515	3	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	60	50245	860516	3.3	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	60	50246	860516	3.3	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	330	53201	860701	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	60	51867	861007	3.5	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	25	330	51868	861008	4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				n		7	7	7	7	7	7	7	7
15	132	0	50233	860513	3	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	50234	860513	6	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	50229	860513	1	0.00	1.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	50231	860513	8.4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRA-CHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
15	132	0	50230	860513	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	50232	860513	8.4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	53207	860707	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	53208	860707	8.8	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	51865	861006	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	132	0	51866	861006	9.8	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	1.00	0.00	0	0.00	0.00	0.00	0.00
				MEAN		0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
				n		10	10	10	10	10	10	10	10
15	203	0	50225	860512	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	50226	860512	1								
15	203	0	50227	860512	7.4	3.00	45.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	50228	860512	7.4	0.00	15.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	53232	860718	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	53233	860718	7.8	2.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	51875	861011	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	203	0	51876	861011	8.8	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		3.00	45.00	0.00	0	0.00	0.00	0.00	0.00
				MEAN		0.71	8.57	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		1.16	15.75	0.00	0.00	0.00	0.00	0.00	0.00
				n		7	7	7	7	7	7	7	7
15	206	0	50221	860511	1	53.00	205.00	0.00	0	11.00	27.00	0.00	0.00
15	206	0	50222	860511	1	2.00	16.00	0.00	0	0.00	23.00	0.00	0.00
15	206	0	50223	860511	5.9	2.00	11.00	0.00	0	0.00	5.00	0.00	0.00
15	206	0	50224	860511	5.9	0.00	9.00	0.00	0	0.00	0.00	0.00	0.00
15	206	0	53230	860717	1	5.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	206	0	53231	860717	7.3	4.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	206	0	51877	861012	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	206	0	51878	861012	8.3	4.00	55.00	0.00	0	1.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		53.00	205.00	0.00	0	11.00	27.00	0.00	0.00
				MEAN		8.75	37.00	0.00	0.00	1.50	6.88	0.00	0.00
				STD. DEVIATION		16.81	65.72	0.00	0.00	3.61	10.64	0.00	0.00
				n		8	8	8	8	8	8	8	8
15	211	0	50217	860510	1	0.00	5.00	0.00	0	0.00	2.00	0.00	0.00
15	211	0	50219	860510	5.9	1.00	3.00	0.00	0	0.00	0.00	0.00	0.00
15	211	0	50218	860510	1	0.00	4.00	0.00	0	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	OCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
15	211	0	50220	860510	5.9	0.00	14.00	0.00	0	0.00	9.00	0.00	0.00
15	211	0	53227	860715	1	2.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	211	0	53228	860715	6.8	11.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	211	0	51873	861010	1	0.00	3.00	72.00	0	0.00	0.00	0.00	0.00
15	211	0	51874	861010	6.8	1.00	4.00	35.00	1	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		11.00	14.00	72.00	1	0.00	9.00	0.00	0.00
				MEAN		1.88	4.13	13.38	0.13	0.00	1.38	0.00	0.00
				STD. DEVIATION		3.52	4.11	24.94	0.33	0.00	2.96	0.00	0.00
				n		8	8	8	8	8	8	8	8
15	214	100	50247	860519	7	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	214	100	50248	860519	7	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	214	600	50277	860519	3	1.00	9.00	7.00	0	0.00	0.00	0.00	0.00
15	214	600	50278	860519	3	0.00	2.00	0.00	0	0.00	0.00	0.00	0.00
15	214	510	53202	860703	4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	214	80	53206	860706	4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	214	80	51861	861004	4	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	214	550	51862	861004	4.5	1.00	13.00	0.00	1	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		1.00	13.00	7.00	1	0.00	0.00	0.00	0.00
				MEAN		0.25	3.00	0.88	0.13	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.43	4.77	2.32	0.33	0.00	0.00	0.00	0.00
				n		8	8	8	8	8	8	8	8
15	216	575	50213	860509	1	0.00	4.00	0.00	0	0.00	2.00	0.00	0.00
15	216	575	50215	860509	5.9	0.00	4.00	0.00	0	0.00	2.00	0.00	0.00
15	216	575	50214	860509	1	0.00	4.00	0.00	0	0.00	3.00	0.00	0.00
15	216	575	50216	860509	5.9	2.00	8.00	0.00	0	0.00	4.00	0.00	0.00
15	216	635	53221	860712	1	100.00	16.00	7.00	4	0.00	0.00	0.00	0.00
15	216	570	53225	860714	1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	216	570	53226	860714	7.8	2.00	0.00	0.00	0	0.00	0.00	0.00	0.00
15	216	570	51863	861005	1	2.00	0.00	15.00	1	0.00	0.00	0.00	0.00
15	216	570	51864	861005	8.6	1.00	24.00	0.00	0	0.00	0.00	0.00	0.00
15	216	590	51870	861009	1	0.00	1.00	0.00	0	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		100.00	24.00	15.00	4	0.00	4.00	0.00	0.00
				MEAN		10.70	6.10	2.20	0.50	0.00	1.10	0.00	0.00
				STD. DEVIATION		29.78	7.57	4.75	1.20	0.00	1.45	0.00	0.00
				n		10	10	10	10	10	10	10	10
15	218	885	50209	860508	1	0.00	5.00	5.00	0	0.00	2.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	HCB ng/g	HCBD ng/g	HCE ng/g	OCS ng/g	QCB ng/g	1,2,3,4-TETRACHLOROBENZENE (TCB) ng/g	1,2,3,5-TCB ng/g	1,2,4,5-TCB ng/g
15	218	885	50211	860508	5.9	0.00	2.00	0.00	0	0.00	0.00	0.00	0.00
15	218	885	50210	860508	1	0.00	0.00	1.00	0	0.00	1.00	0.00	0.00
15	218	885	50212	860508	5.9	0.00	4.00	0.00	0	0.00	1.00	0.00	0.00
15	218	0	53209	860709	1								
15	218	0	53210	860709	8.3								
15	218	0	51857	861002	1	1.00	5.00	0.00	0	0.00	0.00	0.00	0.00
15	218	0	51858	861002	7.8	1.00	12.00	0.00	0	1.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0	0.00	0.00	0.00	0.00
				MAXIMUM		1.00	12.00	5.00	0	1.00	2.00	0.00	0.00
				MEAN		0.33	4.67	1.00	0.00	0.17	0.67	0.00	0.00
				STD. DEVIATION		0.47	3.73	1.83	0.00	0.37	0.75	0.00	0.00
				n		6	6	6	6	6	6	6	6

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUEN 2,6,A ng/g
15	7	0	50235	860514	2	0.00	0.00	1.00	0.00	0.00	0.00
15	7	0	50236	860514	2	0.00	0.00	0.00	0.00	0.00	0.00
15	7	0	50856	861001	0	0.00	0.00	0.00	0.00	200.00	5.00
15	7	0	50855	861001	0.1						
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	1.00	0.00	200.00	5.00
				MEAN		0.00	0.00	0.33	0.00	66.67	1.67
				STD. DEVIATION		0.00	0.00	0.47	0.00	94.28	2.36
				n		3	3	3	3	3	3
15	18	625	50203	860507	1	0.00	0.00	0.00	0.00	0.00	0.00
15	18	625	50201	860507	1	0.00	0.00	0.00	0.00	0.00	0.00
15	18	625	50202	860507	5.4	0.00	0.00	0.00	0.00	0.00	0.00
15	18	625	50204	860507	5.4	0.00	0.00	0.00	0.00	0.00	0.00
15	18	545	53222	860713	1	0.00	0.00	0.00	0.00	0.00	0.00
15	18	545	53223	860713	7.8	0.00	0.00	0.00	0.00	0.00	0.00
15	18	635	53229	860716	1	0.00	0.00	0.00	0.00	0.00	0.00
15	18	615	51859	861003	1	0.00	0.00	0.00	0.00	11.00	0.00
15	18	615	51860	861003	7.8	0.00	0.00	0.00	0.00	9.00	0.00
15	18	635	51869	861008	1.5	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	11.00	0.00
				MEAN		0.00	0.00	0.00	0.00	2.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	4.02	0.00
				n		10	10	10	10	10	10
15	25	330	50241	860515	3	0.00	0.00	0.00	0.00	0.00	0.00
15	25	330	50242	860515	3	0.00	0.00	0.00	0.00	0.00	0.00
15	25	60	50245	860516	3.3	0.00	0.00	0.00	0.00	0.00	0.00
15	25	60	50246	860516	3.3	0.00	0.00	0.00	0.00	0.00	0.00
15	25	330	53201	860701	1	0.00	0.00	0.00	0.00	0.00	0.00
15	25	60	51867	861007	3.5	0.00	0.00	0.00	0.00	0.00	0.00
15	25	330	51868	861008	4	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		7	7	7	7	7	7

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
15	132	0	50229	860513	1	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	50230	860513	1	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	50233	860513	3	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	50234	860513	6	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	50231	860513	8.4	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	50232	860513	8.4	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	53207	860707	1	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	53208	860707	8.8	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	51865	861006	1	0.00	0.00	0.00	0.00	0.00	0.00
15	132	0	51866	861006	9.8	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		10	10	10	10	10	10
15	203	0	50225	860512	1	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	50226	860512	1						
15	203	0	50227	860512	7.4	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	50228	860512	7.4	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	53232	860718	1	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	53233	860718	7.8	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	51875	861011	1	0.00	0.00	0.00	0.00	0.00	0.00
15	203	0	51876	861011	8.8	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		7	7	7	7	7	7
15	206	0	50221	860511	1	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	50222	860511	1	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	50223	860511	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	50224	860511	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	53230	860717	1	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	53231	860717	7.3	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	51877	861012	1	0.00	0.00	0.00	0.00	0.00	0.00
15	206	0	51878	861012	8.3	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		8	8	8	8	8	8
15	211	0	50217	860510	1	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	50218	860510	1	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	50219	860510	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	50220	860510	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	53227	860715	1	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	53228	860715	6.8	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	51873	861010	1	0.00	0.00	0.00	0.00	0.00	0.00
15	211	0	51874	861010	6.8	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MEAN		0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		8	8	8	8	8	8
15	214	100	50247	860519	7	0.00	0.00	0.00	0.00	0.00	0.00
15	214	100	50248	860519	7	0.00	0.00	0.00	0.00	0.00	0.00
15	214	600	50277	860519	3	0.00	0.00	0.00	0.00	0.00	0.00
15	214	600	50278	860519	3	0.00	0.00	0.00	0.00	0.00	0.00
15	214	510	53202	860703	4	0.00	0.00	0.00	0.00	0.00	0.00
15	214	80	53206	860706	4	0.00	0.00	0.00	0.00	0.00	0.00
15	214	80	51861	861004	4	0.00	0.00	0.00	0.00	0.00	0.00
15	214	550	51862	861004	4.5	0.00	29.00	0.00	0.00	10.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
					MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
					MAXIMUM	0.00	29.00	0.00	0.00	10.00	0.00
					MEAN	0.00	3.63	0.00	0.00	1.25	0.00
					STD. DEVIATION	0.00	9.59	0.00	0.00	3.31	0.00
					n	8	8	8	8	8	8
15	216	575	50213	860509	1	0.00	0.00	0.00	0.00	0.00	0.00
15	216	575	50214	860509	1	0.00	0.00	0.00	0.00	0.00	0.00
15	216	575	50215	860509	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	216	575	50216	860509	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	216	635	53221	860712	1	0.00	0.00	0.00	0.00	8.00	0.00
15	216	570	53225	860714	1	0.00	0.00	0.00	0.00	0.00	0.00
15	216	570	53226	860714	7.8	0.00	0.00	0.00	0.00	0.00	0.00
15	216	570	51863	861005	1	0.00	0.00	0.00	0.00	37.00	0.00
15	216	570	51864	861005	8.6	0.00	0.00	0.00	0.00	0.00	0.00
15	216	590	51870	861009	1	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	0.00	0.00	37.00	0.00
				MEAN		0.00	0.00	0.00	0.00	4.50	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	11.09	0.00
				n		10	10	10	10	10	10
15	218	885	50209	860508	1	0.00	0.00	0.00	0.00	0.00	0.00
15	218	885	50210	860508	1	0.00	0.00	0.00	0.00	0.00	0.00
15	218	885	50211	860508	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	218	885	50212	860508	5.9	0.00	0.00	0.00	0.00	0.00	0.00
15	218	0	53209	860709	1						
15	218	0	53210	860709	8.3						
15	218	0	51857	861002	1	0.00	0.00	0.00	0.00	0.00	0.00
15	218	0	51858	861002	7.8	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.2:
CENTRIFUGING: SUSPENDED SOLIDS
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH (m)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
					MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
					MAXIMUM	0.00	0.00	0.00	0.00	0.00	0.00
					MEAN	0.00	0.00	0.00	0.00	0.00	0.00
					STD. DEVIATION	0.00	0.00	0.00	0.00	0.00	0.00
					n	6	6	6	6	6	6

APPENDIX 4.3

CONVENTIONAL RESULTS FROM EFFLUENT CENTRIFUGATION

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	10.00	0.00	0.00	0.00
				MAXIMUM		0.00	0.00	10.00	0.00	0.00	0.00
				MEAN		0.00	0.00	10.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00
				n		3	3	1	3	3	3
91	729	0	50237	860514	0.10	0.00	0.00		0.00	0.00	0.00
91	729	0	50345	860710	0.50						
91	729	0	51652	861014							
				MINIMUM		0.00	0.00		0.00	0.00	0.00
				MAXIMUM		0.00	0.00		0.00	0.00	0.00
				MEAN		0.00	0.00		0.00	0.00	0.00
				STD. DEVIATION		0.00	0.00		0.00	0.00	0.00
				n		1	1	0	1	1	1
91	929	0	50271	860517	1.00	0.00	0.00		0.00	0.00	0.00
91	929	0	50346	860710	0.50	0.00	0.00		0.00	0.00	0.00
91	929	0	18382	861009	0.10	0.00	20.00	0.00	0.00	0.00	0.00

CENTRIFUGING: SEDS EFFLUENT
DATA REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM		0.00	20.00	0.00	0.00	0.00	0.00
				MEAN		0.00	6.67	0.00	0.00	0.00	0.00
				STD. DEVIATION		0.00	9.43	0.00	0.00	0.00	0.00
				n		3	3	1	3	3	3

***** TOTAL SAMPLES ===> 929

***** END OF REPORT *****

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	ALUMINIUM ug/g	CADMIUM ug/g	COBALT ug/g	CHROMIUM ug/g	COPPER ug/g	IRON ug/g	MERCURY ug/g	MAGNESIUM ug/g	MANGANESE ug/g	NICKEL ug/g
3	229	0	50269	860516	1.00							0.18			
3	229	0	50369	860716	0.50		0.00					0.36			
3	229	0	18381	861007	0.00		1.80					0.07			
				MINIMUM			0.00					0.07			
				MAXIMUM			1.80					0.36			
				MEAN			0.90					0.20			
				STD. DEVIATION			0.90					0.12			
				n		0	2	0	0	0	0	3	0	0	
3	629	0	50370	860719	0.50		0.00					0.82			
3	629	0	50374	861001	0.00	51000.00	5.80	9.00	740.00	330.00	34000.00	1.60	4700.00	410.00	210.00
				MINIMUM		51000.00	0.00	9.00	740.00	330.00	34000.00	0.82	4700.00	410.00	210.
				MAXIMUM		51000.00	5.80	9.00	740.00	330.00	34000.00	1.60	4700.00	410.00	210.
				MEAN		51000.00	2.90	9.00	740.00	330.00	34000.00	1.21	4700.00	410.00	210.
				STD. DEVIATION		0.00	2.90	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0
				n		1	2	1	1	1	1	2	1	1	
91	229	0	50272	860518	1.00		9.10					6.00			
91	229	0	50347	860711	0.50		0.00					6.50			
91	229	0	51649	861013	0.50		2.30					0.37			

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND REF NUMBER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	ALUMINIUM ug/g	CADMIUM ug/g	COBALT ug/g	CHROMIUM ug/g	COPPER ug/g	IRON ug/g	MERCURY ug/g	MAGNESIUM ug/g	MANGANESE ug/g	NICKEL ug/g
				MINIMUM			0.00					0.37			
				MAXIMUM			9.10					6.50			
				MEAN			3.80					4.29			
				STD. DEVIATION			3.86					2.78			
				n		0	3	0	0	0	0	3	0	0	
91	329	0	50273	860518	1.00		3.10					4.20			
91	329	0	50348	860711	0.50		0.00					0.30			
91	329	0	51650	861013	0.50		2.10					0.35			
				MINIMUM			0.00					0.30			
				MAXIMUM			3.10					4.20			
				MEAN			1.73					1.62			
				STD. DEVIATION			1.29					1.83			
				n		0	3	0	0	0	0	3	0	0	
91	529	0	50270	860516	1.00		1.80					2.40			
91	529	0	50349	860712	0.50		0.00					19.00			
91	529	0	51651	861015	0.50		1.70					2.80			

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	ALUMINIUM ug/g	CADMIUM ug/g	COBALT ug/g	CHROMIUM ug/g	COPPER ug/g	IRON ug/g	MERCURY ug/g	MAGNESIUM ug/g	MANGANESE ug/g	NICKEL ug/g
				MINIMUM			0.00					2.40			
				MAXIMUM			1.80					19.00			
				MEAN			1.00					8.07			
				STD. DEVIATION			0.75					7.73			
				n		0	3	0	0	0	0	3	0	0	
91	729	0	50237	860514	0.10		1.90					11.00			
91	729	0	50345	860710	0.50		0.00					4.00			
91	729	0	51652	861014			2.30					0.37			
				MINIMUM			0.00					0.37			
				MAXIMUM			2.30					11.00			
				MEAN			1.40					5.12			
				STD. DEVIATION			1.00					4.41			
				n		0	3	0	0	0	0	3	0	0	
91	929	0	50271	860517	1.00		4.50					2.10			
91	929	0	50346	860710	0.50										
91	929	0	18382	861009	0.10		1.40					0.18			

CENTRIFUGING: SEOS : EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	ALUMINIUM ug/g	CADMIUM ug/g	COBALT ug/g	CHROMIUM ug/g	COPPER ug/g	IRON ug/g	MERCURY ug/g	MAGNESIUM ug/g	MANGANESE ug/g	NICKEL ug/g
					MINIMUM		1.40					0.18			
					MAXIMUM		4.50					2.10			
					MEAN		2.95					1.14			
					STD. DEVIATION		1.55					0.96			
					n	0	2	0	0	0	0	2	0	0	

***** TOTAL SAMPLES ===> 20

***** END OF REPORT *****

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	LOSS ON IGNITION	SOLVENT EXTRACTABLES	CARBON TOTAL ORG.	ZINC	COPPER	NITROGEN TOT. KJELDAHL	LEAD	TOT. PHOS
						mg/g	ug/g	mg/g	ug/g	ug/g	mg/g	ug/g	mg/g
3	229	0	50269	860516	1.00		21200.00						
3	229	0	50369	860716	0.50	170.00	16000.00				10.00	48.00	2.07
3	229	0	18381	861007	0.00	82.00	5900.00	43.00			3.50	39.00	0.89
				MINIMUM		82.00	5900.00	43.00			3.50	39.00	0.89
				MAXIMUM		170.00	21200.00	43.00			10.00	48.00	2.07
				MEAN		126.00	14366.67	43.00			6.75	43.50	1.48
				STD. DEVIATION		44.00	6352.08	0.00			3.25	4.50	0.59
				n		2	3	1	0	0	2	2	2
3	629	0	50370	860719	0.50	700.00	110000.00	370.00			33.50	51.00	23.47
3	629	0	50374	861001	0.00	620.00	102100.00	350.00	1200.00	330.00	25.50	210.00	23.08
				MINIMUM		620.00	102100.00	350.00	1200.00	330.00	25.50	51.00	23.08
				MAXIMUM		700.00	110000.00	370.00	1200.00	330.00	33.50	210.00	23.47
				MEAN		660.00	106050.00	360.00	1200.00	330.00	29.50	130.50	23.28
				STD. DEVIATION		40.00	3950.00	10.00	0.00	0.00	4.00	79.50	0.20
				n		2	2	2	1	1	2	2	2
91	229	0	50272	860518	1.00	210.00	37990.00	95.00				210.00	
91	229	0	50347	860711	0.50	140.00	12500.00				7.10	42.00	1.62
91	229	0	51649	861013	0.50	69.00	3600.00	46.00			4.10	29.00	1.07

CENTRIFUGING- SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	ZINC ug/g	COPPER ug/g	NITROGEN TOT. KJELDAHL mg/g	LEAD ug/g	TOT. PHOS mg/g
				MINIMUM		69.00	3600.00	46.00			4.10	29.00	1.07
				MAXIMUM		210.00	37990.00	95.00			7.10	210.00	1.62
				MEAN		139.67	18030.00	70.50			5.60	93.67	1.35
				STD. DEVIATION		57.56	14574.03	24.50			1.50	82.43	0.28
				n		3	3	2	0	0	2	3	2
91	329	0	50273	860518	1.00	170.00	23500.00	91.00			8.60	48.00	1.17
91	329	0	50348	860711	0.50	87.00	9400.00	46.00			5.70	24.00	1.30
91	329	0	51650	861013	0.50	78.00	3300.00	55.00			5.10	35.00	1.08
				MINIMUM		78.00	3300.00	46.00			5.10	24.00	1.08
				MAXIMUM		170.00	23500.00	91.00			8.60	48.00	1.30
				MEAN		111.67	12066.67	64.00			6.47	35.67	1.18
				STD. DEVIATION		41.41	8459.45	19.44			1.53	9.81	0.09
				n		3	3	3	0	0	3	3	3
91	329	0	50270	860516	1.00	200.00	16120.00	82.00			7.60	41.00	1.06
91	329	0	50349	860712	0.50	110.00	13000.00	62.00			7.60	36.00	1.38
91	329	0	51651	861013	0.50	61.00	1700.00	45.00			4.60	46.00	1.04

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

INO. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	ZINC ug/g	COPPER ug/g	NITROGEN TOT. KJELDAHL mg/g	LEAD ug/g	TOT. PHOS mg/g
				MINIMUM		61.00	1700.00	45.00			4.60	36.00	1.04
				MAXIMUM		200.00	16120.00	82.00			7.60	46.00	1.38
				MEAN		123.67	10273.33	63.00			6.60	41.00	1.16
				STD. DEVIATION		57.56	6194.63	15.12			1.41	4.08	0.16
				n		3	3	3	0	0	3	3	3
91	729	0	50237	860514	0.10	180.00	15500.00	98.00			9.00	21.00	2.10
91	729	0	50345	860710	0.50	110.00	720.00				6.30	20.00	1.37
91	729	0	51652	861014		69.00	6800.00	46.00			4.10	29.00	
				MINIMUM		69.00	720.00	46.00			4.10	20.00	1.37
				MAXIMUM		180.00	15500.00	98.00			9.00	29.00	2.10
				MEAN		119.67	7673.33	72.00			6.47	23.33	1.74
				STD. DEVIATION		45.83	6065.43	26.00			2.00	4.03	0.37
				n		3	3	2	0	0	3	3	2
91	929	0	50271	860517	1.00	230.00	18900.00	110.00			11.20	15.00	1.48
91	929	0	50346	860710	0.50	110.00	7800.00						
91	929	0	18382	861009	0.10	95.00	2100.00	48.00			4.30	30.00	0.91

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	ZINC ug/g	COPPER ug/g	NITROGEN TOT. KJELDAHL mg/g	LEAD ug/g	TOT. PHOS mg/g
				MINIMUM		95.00	2100.00	48.00			4.30	15.00	0.91
				MAXIMUM		230.00	18900.00	110.00			11.20	30.00	1.48
				MEAN		145.00	9600.00	79.00			7.75	22.50	1.20
				STD. DEVIATION		60.42	6975.67	31.00			3.45	7.50	0.29
				n		3	3	2	0	0	2	2	2

***** TOTAL SAMPLES ==== 20

***** END OF REPORT *****

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

INO. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
3	229	0	50269	860516	1.00	6.00						
3	229	0	50369	860716	0.50	3.90	8.60	7.50	10.10	19.70	16.30	10.10
3	229	0	18381	861007	0.00	0.00	0.00	2.50	7.00	11.80	13.00	16.20
				MINIMUM		0.00	0.00	2.50	7.00	11.80	13.00	10.10
				MAXIMUM		6.00	8.60	7.50	10.10	19.70	16.30	16.20
				MEAN		3.30	4.30	5.00	8.55	15.75	14.65	13.15
				STD. DEVIATION		2.49	4.30	2.50	1.55	3.95	1.65	3.05
				n		3	2	2	2	2	2	2
3	629	0	50370	860719	0.50	8.80	16.10	15.50	15.10	14.50	10.60	8.60
3	629	0	50374	861001	0.00	3.20	10.10	12.10	12.60	14.60	12.60	
				MINIMUM		3.20	10.10	12.10	12.60	14.50	10.60	8.60
				MAXIMUM		8.80	16.10	15.50	15.10	14.60	12.60	8.60
				MEAN		6.00	13.10	13.80	13.85	14.55	11.60	8.60
				STD. DEVIATION		2.80	3.00	1.70	1.25	0.05	1.00	0.00
				n		2	2	2	2	2	2	1
91	229	0	50272	860518	1.00							
91	229	0	50347	860711	0.50							
91	229	0	51649	861013	0.50							

CENTRIFUGING: SEDS.. EFFLUENT
DATA REPORT

INO. REF. NUMBER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM								
				MAXIMUM								
				MEAN								
				STD. DEVIATION								
				n		0	0	0	0	0	0	0
91	329	0	50273	860518	1.00							
91	329	0	50348	860711	0.50							
91	329	0	51650	861013	0.50							
				MINIMUM								
				MAXIMUM								
				MEAN								
				STD. DEVIATION								
				n		0	0	0	0	0	0	0
91	529	0	50270	860516	1.00							
91	529	0	50349	860712	0.50							
91	529	0	51651	861013	0.50							

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SN#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM								
				MAXIMUM								
				MEAN								
				STD. DEVIATION								
				n		0	0	0	0	0	0	0
91	729	0	50237	860514	0.10							
91	729	0	50345	860710	0.50							
91	729	0	51652	861014								
				MINIMUM								
				MAXIMUM								
				MEAN								
				STD. DEVIATION								
				n		0	0	0	0	0	0	0
91	929	0	50271	860517	1.00							
91	929	0	50346	860710	0.50							
91	929	0	18382	861009	0.10	0.00	4.00	6.20	8.50	14.10	12.60	13.80

CENTRIFUGING SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM		0.00	4.00	6.20	8.50	14.10	12.60	13.80
				MAXIMUM		0.00	4.00	6.20	8.50	14.10	12.60	13.80
				MEAN		0.00	4.00	6.20	8.50	14.10	12.60	13.80
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00	0.00
				n		1	1	1	1	1	1	1

***** TOTAL SAMPLES ===> 20

***** END OF REPORT *****

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SM#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
3	229	0	50269	860516	1.00								
3	229	0	50369	860716	0.50	8.30	5.90	5.50	2.40	0.60	0.00	0.00	0.00
3	229	0	18381	861007	0.00	14.60	11.60	10.30	6.80	4.70	0.70	0.00	0.00
				MINIMUM		8.30	5.90	5.50	2.40	0.60	0.00	0.00	0.00
				MAXIMUM		14.60	11.60	10.30	6.80	4.70	0.70	0.00	0.00
				MEAN		11.45	8.75	7.90	4.60	2.65	0.35	0.00	0.00
				STD. DEVIATION		3.15	2.85	2.40	2.20	2.05	0.35	0.00	0.00
				n		2	2	2	2	2	2	2	2
3	629	0	50370	860719	0.50	4.90	2.70	2.20	0.20	0.00	0.00	0.00	0.00
3	629	0	50374	861001	0.00	8.80	7.00	4.60	2.10	1.00	0.00	0.00	0.00
				MINIMUM		4.90	2.70	2.20	0.20	0.00	0.00	0.00	0.00
				MAXIMUM		8.80	7.00	4.60	2.10	1.00	0.00	0.00	0.00
				MEAN		6.85	4.85	3.40	1.15	0.50	0.00	0.00	0.00
				STD. DEVIATION		1.95	2.15	1.20	0.95	0.50	0.00	0.00	0.00
				n		2	2	2	2	2	2	2	2
91	229	0	50272	860518	1.00								
91	229	0	50347	860711	0.50								
91	229	0	51649	861013	0.50								

CENTRIFUGING SEDS . EFFLUENT
DATA REPORT

IWO. REF NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM									
				MAXIMUM									
				MEAN									
				STD. DEVIATION									
				n		0	0	0	0	0	0	0	0
91	329	0	50273	860518	1.00								
91	329	0	50348	860711	0.50								
91	329	0	51650	861013	0.50								
				MINIMUM									
				MAXIMUM									
				MEAN									
				STD. DEVIATION									
				n		0	0	0	0	0	0	0	0
91	529	0	50270	860516	1.00								
91	529	0	50349	860712	0.50								
91	529	0	51651	861013	0.50								

CENTRIFUGING: SEDS.: EFFLUENT
DATA REPORT

IND. REF. NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM									
				MAXIMUM									
				MEAN									
				STD. DEVIATION									
				n		0	0	0	0	0	0	0	0
91	729	0	50237	860514	0.10								
91	729	0	50345	860710	0.50								
91	729	0	51652	861014									
				MINIMUM									
				MAXIMUM									
				MEAN									
				STD. DEVIATION									
				n		0	0	0	0	0	0	0	0
91	929	0	50271	860517	1.00								
91	929	0	50346	860710	0.50								
91	929	0	18382	861009	0.10	12.30	10.10	8.90	5.20	3.40	0.50	0.00	0.00

CENTRIFUGING: SEOS.: EFFLUENT
DATA REPORT

IWO REF NUMBER	SW#	DISTANCE	FS#	DATE	SAMPLE DEPTH	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM		12.30	10.10	8.90	5.20	3.40	0.50	0.00	0.00
				MAXIMUM		12.30	10.10	8.90	5.20	3.40	0.50	0.00	0.00
				MEAN		12.30	10.10	8.90	5.20	3.40	0.50	0.00	0.00
				STD. DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				n		1	1	1	1	1	1	1	1

***** TOTAL SAMPLES ===> 929

***** END OF REPORT *****

APPENDIX 4.4

SURFICIAL BOTTOM SEDIMENT RESULTS

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Anaylsis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

Field Sample #	52441 216-US	52442 216-US	52443 18-30	52445 18-30	52446 18-30	52449 213-100	52550 213-100	34468 Telford Mouth	34469 Telford U.S.	34470 Telford S ARM	34471 Telford W ARM	34472 Telford U.S W ARM	34458 Telford Highway 40	34455 Telford Lasalle Rd
PARAMETER	861018	861018	861018	861018	861018	861018	861018	861128	861128	861128	861128	861128	860521	860521
1,1,1-Trichloroethane	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichlorethylene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dibromenthane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethylene	ND	ND	-	2	ND	ND	ND	-	-	-	-	-	-	-
1,2-Dichloropropane	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anhtracene/Phenanthrene	-	-	* 17	-	-	-	-	-	-	-	-	-	-	-
Benzene	7.7	2	-	0.2	0.3	0.7	0.7	17	16	30	23	28	20	25
Benzo(a)anthracene/Chyrsene	-	-	* 13	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene/Benzo(k) - fluoranthene/Perylene	-	-	* ND	-	-	-	-	-	-	-	-	-	-	-
Biphenyl	-	-	* 91	-	-	-	-	-	-	-	-	-	-	-
Bromform	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbontetrachloride	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

Field Sample #	52441 216 US	52442 216 US	52443 18 30	52445 18 30	52446 18-30	52449 213-100	52550 213 100	34468 Talford Mouth	34469 Talford U.S.	34470 Talford S ARM	34471 Talford N ARM	34472 Talford U.S N ARM	34458 Talford Highway 40	34455 Talford Lasalle Rd
PARAMETER	861018	861018	861018	861018	861018	861018	861018	861128	861128	861128	861128	861128	860521	860521
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	14	6.3		1.4	2.6	ND	2.5	ND	23	41	36	29	44	46
Dichlorobromomethane	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diphenyl ether			210											
Ethylbenzene	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flouranthene			* 15											
Heptachlorostyrene			* ND											
Hexachlorobenzene			* ND											
Hexachlorobutadiene	ND	ND		16	18	ND	ND							
			* ND											
Hexachlorobutene	ND	ND		ND	ND	ND	ND							
Hexachloroethane	ND	ND		ND	ND	ND	ND							
			* ND											
I.S 1,3 Dichlorobutane	TR	TR		TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
I.S Bromochloromethane	TR	TR		TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR
Methyl benzo(a)anthracene			* ND											
Methyl biphenyl			*											
Methyl fluoranthene			* ND											
Methyl naphthalene														

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Anaylsis Performed by GC/MS Volatile scan unless indicated by (* - Extractable scan)

Field Sample #	52441 216 US	52442 216 US	52443 18-30	52445 18-30	52446 18-30	52449 213-100	52550 213-100	34468 Talford Mouth	34469 Talford U.S.	34470 Talford S ARM	34471 Talford N ARM	34472 Talford U.S.W ARM	34458 Talford Highway 40	34455 Talford Lasalle Rd
PARAMETER	861018	861018	861018	861018	861018	861018	861018	861128	861128	861128	861128	861128	860521	860521
			* 22											
m Xylene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	18
Naphthalene			-	-	-	-	-							
			* ND											
Octachlorocyclopentene	-	-	-	-	-	-	-							
			* ND											
Octachlorostyrene	-	-	-	-	-	-	-							
			* ND											
o or p Xylene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	18
Pentachlorobenzene	ND	ND	-	ND	ND	ND	ND							
			* ND											
Pentachlorobutadiene	ND	ND	ND	ND	ND	ND	ND							
Pentachlorobutene	ND	ND		ND	ND	ND	ND							
Pyrene	-	-	-	-	-	-	-							
			* 16											
Tetrachlorobenzene	ND	ND	-	ND	ND	ND	ND							
			* ND											
Tetrachlorobutadiene	ND	ND	-	ND	ND	ND	ND							
			* ND											
Tetrachloroethylene	ND	ND	-	7.4	17	0.4	0.7	ND	ND	ND	ND	ND	15	38
			* ND											
Toluene	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	20
Trichlorbutadiene	ND	ND	-	ND	ND	ND	ND							
Trichlorethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorobenzene	ND	ND	-	ND	ND	ND	ND							

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Analysis Performed by GC/MS Volatile scan unless indicated by (* Extractable scan)

PARAMETER	Field Sample # / Station Dist from CDN Shore / Date	55549 / 20 10M	55551 / 20 30M	52425 / 20-100M	52426 / 20 100M	52428 / 201 10	52429 / 201 30M	52430 / 201 30M	52431 / 201 100	52432 / 201 100	52417 / 202 60M	52421 / 204 10M	52422 / 204 10M	52435 / 216 10	52436 / 216 10	52437 / 216 30	52438 / 216 30
	Date	861021	861021	861017	861017	861018	861018	861018	861018	861018	861017	861017	861017	861018	861018	861018	861018
1,1,1 Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND		29	48	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND		0.9	ND	ND	ND	ND	ND
1,1 Dichlorethylene				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,1 Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND		100	ND	ND	ND	ND	ND
1,2 Dibromomethane				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
1,2 Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND		250	290	ND	ND	0.7	ND
1,2 Dichloroethylene		ND	ND	400	970	ND	ND	ND	ND	ND		1500	3000	ND	8	57	30
1,2 Dichloropropane				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Anthracene/Phenanthrene		21	15				* 10				* 7		* 23		* 6	* 41	
Benzene		ND	ND	6.3	11	8.9	12	12	9.3	8.8		7.4	15	6.8	11	7.8	4.9
Benzo(a)Anthracene/Chyrsene							* ND				* 96		* 21		* 3	* ND	
Benzo(a)pyrene/Benzo(k) fluoranthene/Parylene							* ND				* 360		* 16		* ND	* ND	
Biphenyl							* ND				* ND		* 83		* 100	* 390	
Bromoform				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Carbontatrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND		10	ND	ND	ND	ND	ND
Chlorobenzene				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Chlorodibromomethane				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	24	14	14	10	14	18	21		85	110	5.9	7.1	16	21
Dichlorobromomethane				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND

SUMMARY OF VOLATILE RESULTS FROM 1986 ST. CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Anaylsis Performed by GC/MS Volatile scan unless indicated by (* Extractable scan)

PARAMETER	Field Sample # / Station Dist From CDM Shore / Date	55549 20-10M 861021	55551 20-30M 861021	52425 20-100M 861017	52426 20-100M 861017	52428 201-10 861018	52429 201-30M 861018	52430 201-30M 861018	52431 201-100 861018	52432 201-100 861018	52417 202-60M 861017	52421 204-10M 861017	52422 204-10M 861017	52435 216-10 861018	52436 216-10 861018	52437 216-30 861018	52438 216-30 861018
Diphenyl ether		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* ND		* 45		* 260	* 600	
Ethylbenzene		ND	ND	ND	ND	13	ND	0.5	ND	ND	-	ND	1.5	1.5	0.8	0.4	ND
Flouranthene		ND	12	-	-	-	-	-	-	-	-	-	14	-	-	-	-
							* ND				* ND				* 10	* ND	
Heptachlorostyrene		48	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* ND		* 87		* ND	* ND	
Hexachlorobenzene		2100	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* 88				* ND		* 1800		* ND	* ND	
Hexachlorobutadiene		870	78	1600	140	100	1400	360	24	20	ND	960	1400	54	19	166	41
							* 1000						* 1600		* 29	* 750	
Hexachlorobutene		-	-	19	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
Hexachloroethane		190	ND	14	ND	ND	ND	ND	ND	ND	ND	29	35	ND	ND	ND	ND
							* 79						* 47			* 77	
I.S 1,3-Dichlorobutene		-	-	TR	TR	TR	TR	TR	TR	TR	-	TR	TR	TR	TR	TR	TR
I.S Bromochloromethane		-	-	TR	TR	TR	TR	TR	TR	TR	-	TR	TR	TR	TR	TR	TR
Methyl benzo(a)anthracene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* 180		* 28		* ND	* ND	
Methyl biphenyl		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* ND		* ND		*	*	
Methyl fluoranthene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* 35		* 7		* ND	* ND	
Methyl naphthalene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* ND		* 9		* ND	* 160	
m Xylene		-	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND
Naphthalene		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* 5				* ND		* 45		* ND	* 140	
Octachlorocyclopentene		30	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							* ND				* ND		* 21		* ND	* ND	

SUMMARY OF VOLATILE RESULTS FROM 1986 ST CLAIR RIVER SURFICIAL SEDIMENTS ng/g
Anaylsis Performed by GC/MS Volatile scan unless indicated by (* Extractable scan)

PARAMETER	Field Sample # / Station Dist From CDN Shore / Date	55549 20 10M 861021	55551 20-30M 861021	52425 20 100M 861017	52426 20-100M 861017	52428 201 10 861018	52429 201 30M 861018	52430 201 30M 861018	52431 201 100 861018	52432 201 100 861018	52417 202 60M 861017	52421 204 10M 861017	52422 204 10M 861017	52435 216 10 861018	52436 216 10 861018	52437 216 30 861018	52438 216 30 861018
Octachlorostyrene		57	4				* 7				* ND		* 120		* ND	* ND	
o or p Xylene				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Pentachlorobenzene		210	8	ND	ND	ND	27	46	12	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorobutadiene		25	ND	ND	ND	ND	ND * 40	ND	ND	ND	ND	79	240 * 300	14	4	ND	ND
Pentachlorobutene				ND	ND	ND	22	ND	ND	ND		ND	ND	ND	ND	ND	ND
Pyrene		ND	17														
Tetrachlorobenzene		200	ND	15	ND	13	* ND 13	ND	ND	ND	* 9 ND	ND	* 32 ND	ND	* 12 ND	* ND ND	ND
Tetrachlorobutadiene				16	ND	120	182 * 4	ND	ND	ND	* ND	27	110 * 80	6	11 * ND	ND * ND	ND
Tetrachloroethylene		930	ND	380	10	5.2	66 * 150	100	8.3	9.3	ND	700	1300 * 1000	ND	2.7 * 10	110 * 170	7.3
Toluene				NB	NB	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Trichlorbutadiene				ND	ND	29	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Trichlorethylene				ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Trichlorobenzene		ND	ND	ND	ND	27	ND	ND	ND	ND		ND	ND	ND	4	ND	ND

Legend

compound not listed on data report
ND compound listed but not detected
TR trace amount
* Result from anaylsis by GC/MS Extractable method
MDL Typically 1 ng/g

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
15	18	635	52443	861018	2500.00	480.00	25.00	290.00	90.00	5.00	0.00	40.00
15	18	635	52444	861018	1650.00	360.00	20.00	100.00	70.00	0.00	0.00	45.00
15	18	615	52445	861018	430.00	2840.00	80.00	40.00	90.00	10.00	0.00	20.00
15	18	615	52446	861018	300.00	0.00	60.00	60.00	80.00	10.00	0.00	30.00
15	18	545	52447	861018	50.00	230.00	5.00	10.00	20.00	2.00	0.00	2.00
15	18	545	52448	861018	20.00	0.00	5.00	12.00	10.00	2.00	0.00	0.00
				MINIMUM	20.00	0.00	5.00	10.00	10.00	0.00	0.00	0.00
				MAXIMUM	2500.00	2840.00	80.00	290.00	90.00	10.00	0.00	45.00
				MEAN	825.00	651.67	32.50	85.33	60.00	4.83	0.00	22.83
				STD. DEVIATION	927.95	994.19	28.10	96.48	32.66	3.95	0.00	17.32
				n	6	6	6	6	6	6	6	6
15	20	470	52425	861017	1492.00	0.00	0.00	188.00	0.00	0.00	0.00	0.00
15	20	470	52426	861017	591.00	0.00	0.00	103.00	0.00	0.00	0.00	0.00
15	20	550	55549	861021	2000.00	15670.00	15000.00	1310.00	700.00	465.00	0.00	595.00
15	20	550	55550	861021	31000.00	8700.00	15700.00	5600.00	38400.00	1870.00	0.00	1250.00
15	20	540	55551	861021	12789.00	1650.00	1350.00	1210.00	555.00	60.00	0.00	0.00
15	20	540	55552	861021	3026.00	1010.00	7.00	465.00	600.00	50.00	0.00	75.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	591.00	0.00	0.00	103.00	0.00	0.00	0.00	0.00
				MAXIMUM	31000.00	15670.00	15700.00	5600.00	38400.00	1870.00	0.00	1250.00
				MEAN	8483.00	4505.00	5342.83	1479.33	6709.17	407.50	0.00	286.67
				STD. DEVIATION	10866.79	5819.67	7095.04	1900.52	14175.33	673.66	0.00	452.97
				n	6	6	6	6	6	6	6	6
15	201	630	52429	861018	1583.00	0.00	0.00	155.00	0.00	0.00	0.00	0.00
15	201	630	52430	861018	5354.00	0.00	0.00	189.00	0.00	0.00	0.00	0.00
15	201	560	52431	861018	26.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00
15	201	560	52432	861018	46.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00
15	201	125	52433	861018	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	201	125	52434	861018	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	201	650	52427	861018	1421.00	0.00	0.00	179.00	0.00	0.00	0.00	0.00
15	201	650	52428	861018	2360.00	0.00	0.00	79.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	5354.00	0.00	0.00	189.00	0.00	0.00	0.00	0.00
				MEAN	1349.13	0.00	0.00	77.13	0.00	0.00	0.00	0.00
				STD. DEVIATION	1739.32	0.00	0.00	79.50	0.00	0.00	0.00	0.00
				n	8	8	8	8	8	8	8	8
15	202	460	52417	861017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	202	460	52418	861017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	202	75	52419	861017	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	202	75	52420	861017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MEAN	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				n	4	4	4	4	4	4	4	4
15	204	0	52421	861017	22400.00	0.00	0.00	1520.00	0.00	0.00	0.00	0.00
15	204	0	52422	861017	24000.00	0.00	0.00	2945.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
				MINIMUM	22400.00	0.00	0.00	1520.00	0.00	0.00	0.00	0.00
				MAXIMUM	24000.00	0.00	0.00	2945.00	0.00	0.00	0.00	0.00
				MEAN	23200.00	0.00	0.00	2232.50	0.00	0.00	0.00	0.00
				STD. DEVIATION	800.00	0.00	0.00	712.50	0.00	0.00	0.00	0.00
				n	2	2	2	2	2	2	2	2
15	205	0	52423	861018	12017.00	0.00	0.00	1298.00	0.00	0.00	0.00	0.00
15	205	0	52424	861018	3596.00	0.00	0.00	334.00	0.00	0.00	0.00	0.00
				MINIMUM	3596.00	0.00	0.00	334.00	0.00	0.00	0.00	0.00
				MAXIMUM	12017.00	0.00	0.00	1298.00	0.00	0.00	0.00	0.00
				MEAN	7806.50	0.00	0.00	816.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	4210.50	0.00	0.00	482.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2	2	2	2
15	206	0	52459	861018	10900.00	13500.00	630.00	500.00	650.00	160.00	0.00	380.00
15	206	0	52460	861018	228000.00	18700.00	900.00	5000.00	3080.00	200.00	0.00	400.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	10900.00	13500.00	630.00	500.00	650.00	160.00	0.00	380.00
				MAXIMUM	228000.00	18700.00	900.00	5000.00	3080.00	200.00	0.00	400.00
				MEAN	119450.00	16100.00	765.00	2750.00	1865.00	180.00	0.00	390.00
				STD. DEVIATION	108550.00	2600.00	135.00	2250.00	1215.00	20.00	0.00	10.00
				n	2	2	2	2	2	2	2	2
15	207	0	52461	861018	3900.00	0.00	1200.00	450.00	0.00	0.00	0.00	70.00
15	207	0	52462	861018	3350.00	5100.00	630.00	250.00	130.00	0.00	0.00	0.00
				MINIMUM	3350.00	0.00	630.00	250.00	0.00	0.00	0.00	0.00
				MAXIMUM	3900.00	5100.00	1200.00	450.00	130.00	0.00	0.00	70.00
				MEAN	3625.00	2550.00	915.00	350.00	65.00	0.00	0.00	35.00
				STD. DEVIATION	275.00	2550.00	285.00	100.00	65.00	0.00	0.00	35.00
				n	2	2	2	2	2	2	2	2
15	208	0	52463	861018	2400.00	3800.00	600.00	500.00	450.00	150.00	0.00	150.00
15	208	0	52464	861018	30100.00	41000.00	3600.00	1380.00	1250.00	300.00	0.00	540.00

APPENDIX 4.4.
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	2400.00	3800.00	600.00	500.00	450.00	150.00	0.00	150.00
				MAXIMUM	30100.00	41000.00	3600.00	1380.00	1250.00	300.00	0.00	540.00
				MEAN	16250.00	22400.00	2100.00	940.00	850.00	225.00	0.00	345.00
				STD. DEVIATION	13850.00	18600.00	1500.00	440.00	400.00	75.00	0.00	195.00
				n	2	2	2	2	2	2	2	2
15	213	67	52451	861018	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	213	67	52452	861018								
15	213	467	52449	861018	4.00	25.00	3.00	10.00	0.00	0.00	0.00	0.00
15	213	467	52450	861018	3.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00
				MINIMUM	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	4.00	25.00	3.00	10.00	0.00	0.00	0.00	0.00
				MEAN	2.67	8.33	1.00	5.67	0.00	0.00	0.00	0.00
				STD. DEVIATION	1.25	11.79	1.41	4.19	0.00	0.00	0.00	0.00
				n	3	3	3	3	3	3	3	3
15	216	590	52435	861018	2200.00	260.00	3.00	250.00	75.00	2.00	0.00	30.00
15	216	590	52436	861018	840.00	4500.00	370.00	40.00	120.00	30.00	0.00	50.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	HEXACHLOROBENZENE	HEXACHLOROBUTADIENE	HEXACHLOROETHANE	OCTACHLOROSTYRENE	PENTACHLOROBENZENE	TETRACHLOROBENZENE 1,2,3,4	TETRACHLOROBENZENE 1,2,3,5	TETRACHLOROBENZENE 1,2,4,5
					ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
15	216	570	52437	861018	150.00	670.00	5.00	70.00	70.00	10.00	0.00	0.00
15	216	570	52438	861018	990.00	320.00	5.00	20.00	0.00	90.00	0.00	0.00
15	216	500	52439	861018	80.00	570.00	10.00	20.00	40.00	5.00	0.00	10.00
15	216	75	52441	861018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	216	500	52440	861018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	216	75	52442	861018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	2200.00	4500.00	370.00	250.00	120.00	90.00	0.00	50.00
				MEAN	532.50	790.00	49.13	50.00	38.13	17.13	0.00	11.25
				STD. DEVIATION	731.96	1423.07	121.32	78.90	43.15	29.12	0.00	17.63
				n	8	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
15	18	635	52443	861018	0.00	50.00	240.00	0.00	0.00	0.00
15	18	635	52444	861018	0.00	35.00	150.00	0.00	0.00	0.00
15	18	615	52445	861018	0.00	20.00	230.00	0.00	2.00	0.00
15	18	615	52446	861018	0.00	20.00	230.00	0.00	30.00	0.00
15	18	545	52447	861018	0.00	0.00	10.00	0.00	2.00	0.00
15	18	545	52448	861018	0.00	0.00	20.00	3.00	0.00	0.00
				MINIMUM	0.00	0.00	10.00	0.00	0.00	0.00
				MAXIMUM	0.00	50.00	240.00	3.00	30.00	0.00
				MEAN	0.00	20.83	146.67	0.50	5.67	0.00
				STD. DEVIATION	0.00	17.89	97.75	1.12	10.92	0.00
				n	6	6	6	6	6	6
15	20	470	52425	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	20	470	52426	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	20	550	55549	861021	0.00	4340.00	3830.00	0.00	0.00	0.00
15	20	550	55550	861021	0.00	1470.00	15300.00	0.00	0.00	0.00
15	20	540	55551	861021	0.00	55.00	2220.00	0.00	0.00	0.00
15	20	540	55552	861021	0.00	7.00	30.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	4340.00	15300.00	0.00	0.00	0.00
				MEAN	0.00	978.67	3563.33	0.00	0.00	0.00
				STD. DEVIATION	0.00	1594.41	5439.12	0.00	0.00	0.00
				n	6	6	6	6	6	6
15	201	630	52429	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	630	52430	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	560	52431	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	560	52432	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	125	52433	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	125	52434	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	650	52427	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	201	650	52428	861018	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00	0.00
				n	8	8	8	8	8	8
15	202	460	52417	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	202	460	52418	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	202	75	52419	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	202	75	52420	861017	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00	0.00
				n	4	4	4	4	4	4

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
15	204	0	52421	861017	0.00	0.00	0.00	0.00	0.00	0.00
15	204	0	52422	861017	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2	2
15	205	0	52423	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	205	0	52424	861018	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2	2

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,5,A ng/g
15	206	0	52459	861018	0.00	200.00	3800.00	0.00	0.00	0.00
15	206	0	52460	861018	0.00	200.00	3300.00	40.00	0.00	0.00
				MINIMUM	0.00	200.00	3300.00	0.00	0.00	0.00
				MAXIMUM	0.00	200.00	3800.00	40.00	0.00	0.00
				MEAN	0.00	200.00	3550.00	20.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	250.00	20.00	0.00	0.00
				n	2	2	2	2	2	2
15	207	0	52461	861018	0.00	0.00	880.00	50.00	0.00	0.00
15	207	0	52462	861018	0.00	0.00	150.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	150.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	880.00	50.00	0.00	0.00
				MEAN	0.00	0.00	515.00	25.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	365.00	25.00	0.00	0.00
				n	2	2	2	2	2	2

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
15	208	0	52463	861018	0.00	60.00	1030.00	0.00	150.00	0.00
15	208	0	52464	861018	0.00	210.00	1500.00	0.00	0.00	0.00
				MINIMUM	0.00	60.00	1030.00	0.00	0.00	0.00
				MAXIMUM	0.00	210.00	1500.00	0.00	150.00	0.00
				MEAN	0.00	135.00	1265.00	0.00	75.00	0.00
				STD. DEVIATION	0.00	75.00	235.00	0.00	75.00	0.00
				n	2	2	2	2	2	2
15	213	67	52451	861018	5.00	0.00	0.00	0.00	0.00	0.00
15	213	67	52452	861018						
15	213	467	52449	861018	0.00	0.00	4.00	3.00	0.00	0.00
15	213	467	52450	861018	0.00	0.00	0.00	2.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3.6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	5.00	0.00	4.00	3.00	0.00	0.00
				MEAN	1.67	0.00	1.33	1.67	0.00	0.00
				STD. DEVIATION	2.36	0.00	1.89	1.25	0.00	0.00
				n	3	3	3	3	3	3
15	216	590	52435	861018	0.00	12.00	45.00	0.00	0.00	0.00
15	216	590	52436	861018	0.00	50.00	340.00	0.00	0.00	0.00
15	216	570	52437	861018	0.00	10.00	30.00	0.00	0.00	0.00
15	216	570	52438	861018	0.00	0.00	10.00	0.00	5.00	0.00
15	216	500	52439	861018	0.00	5.00	60.00	0.00	0.00	0.00
15	216	75	52441	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	216	500	52440	861018	0.00	0.00	0.00	0.00	0.00	0.00
15	216	75	52442	861018	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	50.00	340.00	0.00	5.00	0.00
				MEAN	0.00	9.63	60.63	0.00	0.63	0.00
				STD. DEVIATION	0.00	15.92	107.72	0.00	1.65	0.00
				n	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
15	18	635	52443	861018	0.00	2.00	0.00	0.00	0.00
15	18	635	52444	861018	0.00	2.00	0.00	0.00	0.00
15	18	615	52445	861018	0.00	0.00	0.00	0.00	0.00
15	18	615	52446	861018	0.00	0.00	0.00	0.00	0.00
15	18	545	52447	861018	0.00	0.00	0.00	0.00	0.00
15	18	545	52448	861018	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	2.00	0.00	0.00	0.00
				MEAN	0.00	0.67	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.94	0.00	0.00	0.00
				n	6	6	6	6	6
15	20	470	52425	861017	0.00	0.00	0.00	0.00	0.00
15	20	470	52426	861017	0.00	0.00	0.00	0.00	0.00
15	20	550	55549	861021	16.00	7.00	0.00	0.00	0.00
15	20	550	55550	861021	30.00	17.00	9.00	0.00	0.00
15	20	540	55551	861021	0.00	0.00	0.00	0.00	0.00
15	20	540	55552	861021	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	30.00	17.00	9.00	0.00	0.00
				MEAN	7.67	4.00	1.50	0.00	0.00
				STD. DEVIATION	11.57	6.35	3.35	0.00	0.00
				n	6	6	6	6	6
15	201	630	52429	861018	0.00	0.00	0.00	0.00	0.00
15	201	630	52430	861018	0.00	0.00	0.00	0.00	0.00
15	201	560	52431	861018	0.00	0.00	0.00	0.00	0.00
15	201	560	52432	861018	0.00	0.00	0.00	0.00	0.00
15	201	125	52433	861018	0.00	0.00	0.00	0.00	0.00
15	201	125	52434	861018	0.00	0.00	0.00	0.00	0.00
15	201	650	52427	861018	0.00	2.00	0.00	0.00	0.00
15	201	650	52428	861018	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	2.00	0.00	0.00	0.00
				MEAN	0.00	0.25	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.66	0.00	0.00	0.00
				n	8	8	8	8	8
15	202	460	52417	861017	0.00	0.00	0.00	0.00	0.00

15	202	460	52418	861017	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
15	202	75	52419	861017	0.00	0.00	0.00	0.00	0.00
15	202	75	52420	861017	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00
				n	4	4	4	4	4
15	204	0	52421	861017	3.00	0.00	1.00	0.00	0.00
15	204	0	52422	861017	2.00	5.00	4.00	0.00	0.00
				MINIMUM	2.00	0.00	1.00	0.00	0.00
				MAXIMUM	3.00	5.00	4.00	0.00	0.00
				MEAN	2.50	2.50	2.50	0.00	0.00
				STD. DEVIATION	0.50	2.50	1.50	0.00	0.00
				n	2	2	2	2	2
15	205	0	52423	861018	0.00	0.00	0.00	0.00	0.00
15	205	0	52424	861018	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2
15	206	0	52459	861018	1.00	20.00	0.00	0.00	0.00
15	206	0	52460	861018	0.00	23.00	0.00	0.00	0.00
				MINIMUM	0.00	20.00	0.00	0.00	0.00
				MAXIMUM	1.00	23.00	0.00	0.00	0.00
				MEAN	0.50	21.50	0.00	0.00	0.00
				STD. DEVIATION	0.50	1.50	0.00	0.00	0.00
				n	2	2	2	2	2
15	207	0	52461	861018	0.00	0.00	0.00	0.00	0.00
15	207	0	52462	861018	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2
15	208	0	52463	861018	0.00	7.00	0.00	0.00	0.00
15	208	0	52464	861018	0.00	24.00	0.00	0.00	0.00
				MINIMUM	0.00	7.00	0.00	0.00	0.00
				MAXIMUM	0.00	24.00	0.00	0.00	0.00
				MEAN	0.00	15.50	0.00	0.00	0.00
				STD. DEVIATION	0.00	8.50	0.00	0.00	0.00
				n	2	2	2	2	2
15	213	67	52451	861018	0.00	0.00	0.00	0.00	0.00
15	213	67	52452	861018					
15	213	467	52449	861018	0.00	0.00	0.00	0.00	0.00
15	213	467	52450	861018	0.00	0.00	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SH#	DISTANCE	FS#	DATE	alpha-BHC	beta-BHC	gamma-bhc	HEPTACHLOREPOXIDE	HEPTACHLOR
					ng/g	ng/g	ng/g	ng/g	ng/g
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00
				n	3	3	3	3	3
15	216	590	52435	861018	0.00	0.00	0.00	0.00	0.00
15	216	590	52436	861018	0.00	0.00	0.00	0.00	0.00
15	216	570	52437	861018	0.00	0.00	0.00	0.00	0.00
15	216	570	52438	861018	0.00	0.00	0.00	0.00	0.00
15	216	500	52439	861018	0.00	0.00	0.00	0.00	0.00
15	216	75	52441	861018	0.00	0.00	0.00	0.00	0.00
15	216	500	52440	861018	0.00	0.00	0.00	0.00	0.00
15	216	75	52442	861018	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.00	0.00	0.00	0.00	0.00
				MEAN	0.00	0.00	0.00	0.00	0.00
				STD. DEVIATION	0.00	0.00	0.00	0.00	0.00
				n	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
15	18	635	52443	861018	4300.00	0.38	6.00	16.00	25.00	8500.00	3.20	20000.00	190.00	10	59.00	17.00
15	18	635	52444	861018	4300.00	0.47	7.00	17.00	29.00	9100.00	2.90	19000.00	180.00	12	62.00	26.00
15	18	615	52445	861018	3400.00	0.73	8.00	22.00	23.00	25000.00	1.80	9000.00	190.00	8.9	120.00	26.00
15	18	615	52446	861018	4200.00	0.22	8.00	27.00	15.00	16000.00	1.20	8800.00	170.00	11	120.00	43.00
15	18	545	52447	861018	2100.00	0.23	7.00	21.00	32.00	27000.00	0.12	10000.00	210.00	8.6	93.00	19.00
15	18	545	52448	861018	2500.00	0.47	6.00	14.00	13.00	14000.00	0.33	9100.00	160.00	7.6	60.00	13.00
				MINIMUM	2100.00	0.22	6.00	14.00	13.00	8500.00	0.12	8800.00	160.00	7.60	59.00	13.00
				MAXIMUM	4300.00	0.73	8.00	27.00	32.00	27000.00	3.20	20000.00	210.00	12.00	120.00	43.00
				MEAN	3466.67	0.42	7.00	19.50	22.83	16600.00	1.59	12650.00	183.33	9.68	85.67	24.00
				STD. DEVIATION	888.19	0.17	0.82	4.35	6.89	7161.24	1.17	4866.81	15.99	1.49	26.90	9.70
				n	6	6	8	6	6	6	6	6	6	6	6	6
15	20	470	52425	861017	11000.00	0.67	13.00	22.00	26.00	21000.00	0.04	12000.00	300.00	26	130.00	16.00
15	20	470	52426	861017	5400.00	0.39	8.00	16.00	32.00	15000.00	0.02	11000.00	200.00	14	120.00	19.00
15	20	550	55549	861021	2200.00	0.53	9.00	29.00	110.00	16000.00	3.60	8900.00	160.00	75	160.00	21.00
15	20	550	55550	861021	3300.00	0.48	9.00	54.00	130.00	13000.00	3.40	10000.00	160.00	130	190.00	100.00
15	20	540	55551	861021	2900.00	0.00	9.00	14.00	40.00	7600.00	1.10	1000.00	150.00	7	92.00	16.00
15	20	540	55552	861021	2400.00	0.00	6.00	13.00	38.00	7300.00	1.00	12000.00	150.00	61	66.00	14.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
				MINIMUM	2200.00	0.00	6.00	13.00	26.00	7300.00	0.02	1000.00	150.00	7.00	66.00	14.00
				MAXIMUM	11000.00	0.67	13.00	54.00	130.00	21000.00	3.60	12000.00	300.00	130.00	190.00	100.00
				MEAN	4533.33	0.35	9.00	24.67	62.67	13316.67	1.53	9150.00	186.67	52.17	126.33	31.00
				STD. DEVIATION	3075.53	0.26	2.08	14.21	41.19	4796.67	1.46	3805.15	53.44	42.50	40.95	30.94
				n	6	6	13	6	6	6	6	6	6	6	6	6
15	201	630	52429	861018	3300.00	0.56	8.00	20.00	51.00	19000.00	0.38	11000.00	190.00	11	220.00	22.00
15	201	630	52430	861018	2800.00	0.35	7.00	17.00	25.00	18000.00	0.13	9500.00	170.00	8.9	150.00	21.00
15	201	560	52431	861018	3500.00	0.40	7.00	15.00	47.00	12000.00	0.03	16000.00	210.00	10	250.00	20.00
15	201	560	52432	861018	2500.00	0.37	6.00	16.00	28.00	13000.00	0.09	14000.00	185.00	8.5	110.00	21.00
15	201	125	52433	861018	1900.00	0.20	6.00	19.00	6.00	19000.00	0.00	7900.00	140.00	6	25.00	12.00
15	201	125	52434	861018	2000.00	0.25	6.00	18.00	8.30	16000.00	0.00	8300.00	140.00	6.1	18.00	10.00
15	201	650	52427	861018	6500.00	0.20	8.00	17.00	31.00	12000.00	52.00	13000.00	200.00	13	52.00	9.60
15	201	650	52428	861018	9500.00	0.60	12.00	26.00	38.00	16000.00	52.00	17000.00	280.00	21	78.00	20.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
				MINIMUM	1900.00	0.20	6.00	15.00	6.00	12000.00	0.00	7900.00	140.00	6.00	18.00	9.60
				MAXIMUM	9500.00	0.60	12.00	26.00	51.00	19000.00	52.00	17000.00	280.00	21.00	250.00	22.00
				MEAN	4000.00	0.37	7.50	18.50	29.29	15625.00	13.08	12087.50	189.38	10.56	112.88	16.95
				STD. DEVIATION	2483.45	0.14	1.87	3.20	15.28	2781.07	22.47	3234.36	41.87	4.52	81.63	5.05
				n	8	8	12	8	8	8	8	8	8	8	8	8
15	202	460	52417	861017		0.66					0.03					37.00
15	202	460	52418	861017		0.80					0.60					33.00
15	202	75	52419	861017		1.40					0.00					14.00
15	202	75	52420	861017		1.00					0.00					20.00
				MINIMUM		0.66					0.00					14.00
				MAXIMUM		1.40					0.60					37.00
				MEAN		0.97					0.16					26.00
				STD. DEVIATION		0.28					0.26					9.35
				n	0	4		0	0	0	4	0	0	0	0	4
15	204	0	52421	861017		0.52					1.40					12.00
15	204	0	52422	861017		0.51					0.96					13.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
				MINIMUM		0.51					0.96					12.00
				MAXIMUM		0.52					1.40					13.00
				MEAN		0.52					1.18					12.50
				STD. DEVIATION		0.01					0.22					0.50
				n	0	2		0	0	0	2	0	0	0	0	2
15	205	0	52423	861018	2400.00	0.40	6.00	18.00	41.00	14000.00	0.13	9600.00	160.00	8.6	170.00	66.00
15	205	0	52424	861018	1900.00	0.36	6.00	15.00	48.00	150000.00	0.45	8500.00	140.00	7.6	170.00	29.00
				MINIMUM	1900.00	0.36	6.00	15.00	41.00	14000.00	0.13	8500.00	140.00	7.60	170.00	29.00
				MAXIMUM	2400.00	0.40	6.00	18.00	48.00	150000.00	0.45	9600.00	160.00	8.60	170.00	66.00
				MEAN	2150.00	0.38	6.00	16.50	44.50	82000.00	0.29	9050.00	150.00	8.10	170.00	47.50
				STD. DEVIATION	250.00	0.02	0.00	1.50	3.50	68000.00	0.16	550.00	10.00	0.50	0.00	18.50
				n	2	2	6	2	2	2	2	2	2	2	2	2
15	206	0	52459	861018	2100.00	0.34	5.00	15.00	26.00	10000.00	7.70	11000.00	150.00	8.3	71.00	12.00
15	206	0	52460	861018	2100.00	0.31	6.00	16.00	37.00	12000.00	7.10	10000.00	160.00	9.4	100.00	13.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
				MINIMUM	2100.00	0.31	5.00	15.00	26.00	10000.00	7.10	10000.00	150.00	8.30	71.00	12.00
				MAXIMUM	2100.00	0.34	6.00	16.00	37.00	12000.00	7.70	11000.00	160.00	9.40	100.00	13.00
				MEAN	2100.00	0.33	5.50	15.50	31.50	11000.00	7.40	10500.00	155.00	8.85	85.50	12.50
				STD. DEVIATION	0.00	0.02	0.50	0.50	5.50	1000.00	0.30	500.00	5.00	0.55	14.50	0.50
				n	2	2	6	2	2	2	2	2	2	2	2	2
15	207	0	52461	861018	4800.00	0.39	8.00	20.00	43.00	14000.00	1.40	14000.00	210.00	14	120.00	16.00
15	207	0	52462	861018	6200.00	0.20	10.00	25.00	25.00	19000.00	0.80	12000.00	220.00	17	110.00	20.00
				MINIMUM	4800.00	0.20	8.00	20.00	25.00	14000.00	0.80	12000.00	210.00	14.00	110.00	16.00
				MAXIMUM	6200.00	0.39	10.00	25.00	43.00	19000.00	1.40	14000.00	220.00	17.00	120.00	20.00
				MEAN	5500.00	0.30	9.00	22.50	34.00	16500.00	1.10	13000.00	215.00	15.50	115.00	18.00
				STD. DEVIATION	700.00	0.10	1.00	2.50	9.00	2500.00	0.30	1000.00	5.00	1.50	5.00	2.00
				n	2	2	10	2	2	2	2	2	2	2	2	2
15	208	0	52463	861018	1800.00	0.26	5.00	14.00	24.00	8700.00	42.00	10000.00	120.00	6.5	74.00	9.60
15	208	0	52464	861018	1600.00	0.21	6.00	15.00	36.00	8600.00	36.00	10000.00	120.00	10	80.00	16.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
				MINIMUM	1600.00	0.21	5.00	14.00	24.00	8600.00	36.00	10000.00	120.00	6.50	74.00	9.60
				MAXIMUM	1800.00	0.26	6.00	15.00	36.00	8700.00	42.00	10000.00	120.00	10.00	80.00	16.00
				MEAN	1700.00	0.24	5.50	14.50	30.00	8650.00	39.00	10000.00	120.00	8.25	77.00	12.80
				STD. DEVIATION	100.00	0.03	0.50	0.50	6.00	50.00	3.00	0.00	0.00	1.75	3.00	3.20
				n	2	2	6	2	2	2	2	2	2	2	2	2
15	213	67	52451	861018	3600.00	0.26	7.00	13.00	12.00	10000.00	0.02	9200.00	200.00	10	36.00	11.00
15	213	67	52452	861018	4000.00	0.26	7.00	15.00	9.70	11000.00	0.01	8300.00	170.00	11	22.00	32.00
15	213	467	52449	861018	1700.00	0.20	3.00	8.30	3.20	4500.00	0.03	5100.00	89.00	4.2	9.30	4.40
15	213	467	52450	861018	1400.00	0.20	3.00	7.50	3.50	4300.00	0.04	5500.00	85.00	3.8	9.10	4.50
				MINIMUM	1400.00	0.20	3.00	7.50	3.20	4300.00	0.01	5100.00	85.00	3.80	9.10	4.40
				MAXIMUM	4000.00	0.26	7.00	15.00	12.00	11000.00	0.04	9200.00	200.00	11.00	36.00	32.00
				MEAN	2675.00	0.23	5.00	10.95	7.10	7450.00	0.03	7025.00	136.00	7.25	19.10	12.98
				STD. DEVIATION	1138.80	0.03	2.00	3.14	3.84	3071.24	0.01	1759.79	50.15	3.27	11.07	11.30
				n	4	4	7	4	4	4	4	4	4	4	4	4
15	216	590	52435	861018	2900.00	2.30	5.00	14.00	16.00	8400.00	4.40	13000.00	140.00	7.1	35.00	9.20
15	216	590	52436	861018	4100.00	2.90	7.00	15.00	17.00	15000.00	7.60	14000.00	170.00	9	690.00	23.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	ALUMINIUM	CADMIUM	COBALT	CHROMIUM	COPPER	IRON	MERCURY	MAGNESIUM	MANGANESE	NICKEL	ZINC	LEAD
					ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g	ug/g
15	216	570	52437	861018	4800.00	0.37	9.00	25.00	21.00	19000.00	5.60	11000.00	180.00	13	110.00	21.00
15	216	570	52438	861018	4000.00	0.62	8.00	37.00	35.00	19000.00	2.80	8300.00	180.00	21	85.00	15.00
15	216	500	52439	861018	4800.00	0.22	7.00	18.00	15.00	11000.00	0.05	11000.00	180.00	11	54.00	13.00
15	216	75	52441	861018	1800.00	0.20	5.00	18.00	5.00	15000.00	0.00	9000.00	130.00	4.7	22.00	11.00
15	216	500	52440	861018	8300.00	0.36	10.00	23.00	23.00	16000.00	0.05	15000.00	250.00	18	72.00	20.00
15	216	75	52442	861018	1900.00	0.29	6.00	19.00	11.00	18000.00	0.02	11000.00	150.00	5.5	28.00	10.00
				MINIMUM	1800.00	0.20	5.00	14.00	5.00	8400.00	0.00	8300.00	130.00	4.70	22.00	9.20
				MAXIMUM	8300.00	2.90	10.00	37.00	35.00	19000.00	7.60	15000.00	250.00	21.00	690.00	23.00
				MEAN	4075.00	0.91	7.13	21.13	17.88	15175.00	2.57	11537.50	172.50	11.16	137.00	15.28
				STD. DEVIATION	1942.78	1.00	1.69	6.92	8.33	3558.70	2.82	2178.84	34.55	5.50	210.91	5.04
				n	8	8	10	8	8	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
15	18	635	52443	861018	100	30.00	1270.00	12.00	112.47	0.80	0.29
15	18	635	52444	861018	250	22.00	1350.00	14.00	118.28	0.50	0.23
15	18	615	52445	861018	35	7.60	525.00	0.00	195.53	0.10	0.15
15	18	615	52446	861018	30	7.70	375.00	5.30	200.78	0.10	0.16
15	18	545	52447	861018	0	15.00	280.00	0.00	198.95	0.10	0.12
15	18	545	52448	861018	0	13.00	280.00	0.00	209.30	0.10	0.11
				MINIMUM	0.00	7.60	280.00	0.00	112.47	0.10	0.11
				MAXIMUM	250.00	30.00	1350.00	14.00	209.30	0.80	0.29
				MEAN	69.17	15.88	680.00	5.22	172.55	0.28	0.18
				STD. DEVIATION	87.48	7.97	453.51	5.84	40.68	0.27	0.06
				n	6	6	6	6	6	6	6
15	20	470	52425	861017	0	20.00	770.00	26.00	132.36	0.40	0.30
15	20	470	52426	861017	0	20.00	460.00	24.00	147.69	0.30	0.21
15	20	550	55549	861021		18.00	650.00	7.80	158.55	0.20	0.13
15	20	550	55550	861021		37.00	640.00	23.00	134.69	0.20	0.19
15	20	540	55551	861021		22.00	1400.00	15.00	115.53	0.30	0.15
15	20	540	55552	861021		11.00	3500.00	0.00	133.30	0.20	0.18

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
			MINIMUM		0.00	11.00	460.00	0.00	115.53	0.20	0.13
			MAXIMUM		0.00	37.00	3500.00	26.00	158.55	0.40	0.30
			MEAN		0.00	21.33	1236.67	15.97	137.02	0.27	0.19
			STD. DEVIATION		0.00	7.82	1054.40	9.46	13.42	0.07	0.05
			n		2	6	6	6	6	6	6
15	201	630	52429	861018	0	16.00	270.00	17.00	187.11	0.20	0.14
15	201	630	52430	861018	25	11.00	320.00	8.40	193.23	0.10	0.16
15	201	560	52431	861018	0	19.00	500.00	21.00	186.73	0.20	0.13
15	201	560	52432	861018	0	11.00	150.00	9.90	191.83	0.10	0.14
15	201	125	52433	861018	0	8.80	160.00	5.60	201.30	0.10	0.12
15	201	125	52434	861018	0	5.70	170.00	5.30	209.90	0.10	0.10
15	201	650	52427	861018	1395	12.00	520.00	20.00	176.32	0.20	0.23
15	201	650	52428	861018	355	22.00	800.00	25.00	169.14	0.30	0.39

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
			MINIMUM		0.00	5.70	150.00	5.30	169.14	0.10	0.10
			MAXIMUM		1395.00	22.00	800.00	25.00	209.90	0.30	0.39
			MEAN		221.88	13.19	361.25	14.03	189.45	0.16	0.18
			STD. DEVIATION		458.10	5.07	214.68	7.15	12.13	0.07	0.09
			n		8	8	8	8	8	8	8
15	202	460	52417	861017	0	5.80	180.00	11.00	161.19	0.10	0.18
15	202	460	52418	861017	0	10.00	200.00	8.70	157.50	0.20	0.15
15	202	75	52419	861017	0	19.00	2080.00	18.00	83.70	0.80	0.50
15	202	75	52420	861017	0	16.00	170.00	19.00	152.29	0.40	0.28
			MINIMUM		0.00	5.80	170.00	8.70	83.70	0.10	0.15
			MAXIMUM		0.00	19.00	2080.00	19.00	161.19	0.80	0.50
			MEAN		0.00	12.70	657.50	14.18	138.67	0.38	0.28
			STD. DEVIATION		0.00	5.14	821.35	4.41	31.89	0.27	0.14
			n		4	4	4	4	4	4	4

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
15	204	0	52421	861017	590	13.00	490.00	17.00	90.40	0.20	0.14
15	204	0	52422	861017	2100	16.00	1100.00	14.00	79.16	0.20	0.21
				MINIMUM	590.00	13.00	490.00	14.00	79.16	0.20	0.14
				MAXIMUM	2100.00	16.00	1100.00	17.00	90.40	0.20	0.21
				MEAN	1345.00	14.50	795.00	15.50	84.78	0.20	0.18
				STD. DEVIATION	755.00	1.50	305.00	1.50	5.62	0.00	0.04
				n	2	2	2	2	2	2	2
15	205	0	52423	861018	40	14.00	340.00	12.00	173.43	0.30	0.18
15	205	0	52424	861018	0	9.90	630.00	0.00	156.47	0.20	0.16
				MINIMUM	0.00	9.90	340.00	0.00	156.47	0.20	0.16
				MAXIMUM	40.00	14.00	630.00	12.00	173.43	0.30	0.18
				MEAN	20.00	11.95	485.00	6.00	164.95	0.25	0.17
				STD. DEVIATION	20.00	2.05	145.00	6.00	8.48	0.05	0.01
				n	2	2	2	2	2	2	2

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
15	206	0	52459	861018	430	5.70	460.00	0.00	173.03	0.10	0.17
15	206	0	52460	861018	0	6.90	1000.00	0.00	164.21	0.10	0.17
				MINIMUM	0.00	5.70	460.00	0.00	164.21	0.10	0.17
				MAXIMUM	430.00	6.90	1000.00	0.00	173.03	0.10	0.17
				MEAN	215.00	6.30	730.00	0.00	168.62	0.10	0.17
				STD. DEVIATION	215.00	0.60	270.00	0.00	4.41	0.00	0.00
				n	2	2	2	2	2	2	2
15	207	0	52461	861018	30	20.00	540.00	11.00	176.83	0.30	0.15
15	207	0	52462	861018	0	16.00	390.00	11.00	182.87	0.30	0.15
				MINIMUM	0.00	16.00	390.00	11.00	176.83	0.30	0.15
				MAXIMUM	30.00	20.00	540.00	11.00	182.87	0.30	0.15
				MEAN	15.00	18.00	465.00	11.00	179.85	0.30	0.15
				STD. DEVIATION	15.00	2.00	75.00	0.00	3.02	0.00	0.00
				n	2	2	2	2	2	2	2

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
15	208	0	52463	861018	140	9.40	360.00	0.00	185.65	0.10	0.12
15	208	0	52464	861018	400	14.00	870.00	0.00	161.49	0.20	0.16
				MINIMUM	140.00	9.40	360.00	0.00	161.49	0.10	0.12
				MAXIMUM	400.00	14.00	870.00	0.00	185.65	0.20	0.16
				MEAN	270.00	11.70	615.00	0.00	173.57	0.15	0.14
				STD. DEVIATION	130.00	2.30	255.00	0.00	12.08	0.05	0.02
				n	2	2	2	2	2	2	2
15	213	67	52451	861018	0	18.00	400.00	0.00	167.37	0.30	0.19
15	213	67	52452	861018		10.00	360.00	6.70	195.65	0.20	0.12
15	213	467	52449	861018	0	8.60	120.00	0.00	196.78	0.10	0.08
15	213	467	52450	861018	0	9.30	110.00	0.00	221.68	0.10	0.08

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
				MINIMUM	0.00	8.60	110.00	0.00	167.37	0.10	0.08
				MAXIMUM	0.00	18.00	400.00	6.70	221.68	0.30	0.19
				MEAN	0.00	11.48	247.50	1.68	195.37	0.18	0.12
				STD. DEVIATION	0.00	3.80	133.30	2.90	19.22	0.08	0.04
				n	3	4	4	4	4	4	4
15	216	590	52435	861018	260	11.00	570.00	28.00	199.65	0.20	9.20
15	216	590	52436	861018	140	16.00	660.00	14.00	161.53	0.30	23.00
15	216	570	52437	861018	80	14.00	920.00	11.00	208.15	0.20	21.00
15	216	570	52438	861018	90	16.00	410.00	16.00	207.27	0.10	15.00
15	216	500	52439	861018	0	12.00	360.00	6.00	199.53	0.20	13.00
15	216	75	52441	861018	0	0.00	86.00	9.10	220.63	0.10	11.00
15	216	500	52440	861018	0	19.00	490.00	0.00	179.35	0.30	20.00
15	216	75	52442	861018	0	5.70	170.00	0.00	228.50	0.10	10.00

APPENDIX 4.4

BOTTOM SEDIMENT

AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE	FS#	DATE	TOTAL PCBs ng/g	LOSS ON IGNITION mg/g	SOLVENT EXTRACTABLES ug/g	CARBON TOTAL ORG. mg/g	WEIGHT g	NITROGEN TOT. KJELDAHL mg/g	TOT. PHOS. mg/g
				MINIMUM	0.00	0.00	86.00	0.00	161.53	0.10	9.20
				MAXIMUM	260.00	19.00	920.00	28.00	228.50	0.30	23.00
				MEAN	71.25	11.71	458.25	10.51	200.58	0.19	15.28
				STD. DEVIATION	87.38	5.80	250.26	8.60	20.19	0.08	5.04
				n	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
15	18	635	52443	861018	1.10	1.40	1.40	0.50	0.20	0.00	0.00	0.00
15	18	635	52444	861018	1.40	1.00	0.70	0.60	0.20	0.00	0.00	0.00
15	18	615	52445	861018	0.20	0.20	0.20	0.10	0.00	0.00	0.00	0.00
15	18	615	52446	861018	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00
15	18	545	52447	861018	0.20	0.20	0.00	0.10	0.10	0.00	0.00	0.00
15	18	545	52448	861018	0.20	0.10	0.00	0.10	0.00	0.00	0.00	0.00
				MINIMUM	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	1.40	1.40	1.40	0.60	0.20	0.00	0.00	0.00
				MEAN	0.53	0.50	0.40	0.23	0.08	0.00	0.00	0.00
				STD. DEVIATION	0.52	0.51	0.51	0.23	0.09	0.00	0.00	0.00
				n	6	6	6	6	6	6	6	6
15	20	470	52425	861017	6.60	5.70	4.20	3.00	2.40	0.30	0.00	0.00
15	20	470	52426	861017	1.30	1.20	0.60	0.60	0.60	0.00	0.00	0.00
15	20	550	55549	861021	0.50	0.40	0.30	0.20	0.10	0.00	0.00	0.00
15	20	550	55550	861021	0.80	0.40	0.40	0.20	0.10	0.00	0.00	0.00
15	20	540	55551	861021	0.40	0.30	0.20	0.10	0.10	0.00	0.00	0.00
15	20	540	55552	861021	0.40	0.40	0.30	0.20	0.10	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SW#	DISTANCE	FS#	DATE	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM	0.40	0.30	0.20	0.10	0.10	0.00	0.00	0.00
				MAXIMUM	6.60	5.70	4.20	3.00	2.40	0.30	0.00	0.00
				MEAN	1.67	1.40	1.00	0.72	0.57	0.05	0.00	0.00
				STD. DEVIATION	2.23	1.95	1.44	1.03	0.84	0.11	0.00	0.00
				n	6	6	6	6	6	6	6	6
15	201	630	52429	861018	0.30	0.20	0.20	0.10	0.00	0.00	0.00	0.00
15	201	630	52430	861018	0.50	0.40	0.40	0.20	0.10	0.00	0.00	0.00
15	201	560	52431	861018	0.20	0.20	0.20	0.10	0.00	0.00	0.00	0.00
15	201	560	52432	861018	0.20	0.10	0.10	0.10	0.00	0.00	0.00	0.00
15	201	125	52433	861018	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	201	125	52434	861018	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00
15	201	650	52427	861018	3.50	3.10	2.70	1.60	1.10	0.20	0.00	0.00
15	201	650	52428	861018	5.80	5.30	4.70	2.90	2.00	0.40	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	5.80	5.30	4.70	2.90	2.00	0.40	0.00	0.00
				MEAN	1.34	1.18	1.04	0.63	0.40	0.08	0.00	0.00
				STD. DEVIATION	2.00	1.83	1.62	0.99	0.70	0.14	0.00	0.00
				n	8	8	8	8	8	8	8	8
15	202	460	52417	861017	0.30	0.20	0.20	0.10	0.00	0.00	0.00	0.00
15	202	460	52418	861017	0.40	0.20	0.20	0.10	0.10	0.00	0.00	0.00
15	202	75	52419	861017	11.90	10.70	9.00	5.60	3.90	6.70	0.00	0.00
15	202	75	52420	861017	6.90	5.20	4.50	3.10	2.10	0.30	0.00	0.00
				MINIMUM	0.30	0.20	0.20	0.10	0.00	0.00	0.00	0.00
				MAXIMUM	11.90	10.70	9.00	5.60	3.90	6.70	0.00	0.00
				MEAN	4.88	4.08	3.48	2.23	1.53	1.75	0.00	0.00
				STD. DEVIATION	4.86	4.34	3.64	2.30	1.61	2.86	0.00	0.00
				n	4	4	4	4	4	4	4	4
15	204	0	52421	861017	0.50	0.30	0.30	0.20	0.10	0.00	0.00	0.00
15	204	0	52422	861017	0.60	0.30	0.30	0.20	0.10	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 3.73 2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM	0.40	0.20	0.20	0.10	0.10	0.00	0.00	0.00
				MAXIMUM	0.40	0.30	0.20	0.10	0.10	0.00	0.00	0.00
				MEAN	0.40	0.25	0.20	0.10	0.10	0.00	0.00	0.0
				STD. DEVIATION	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
				n	2	2	2	2	2	2	2	2
15	207	0	52461	861018	0.50	0.40	0.30	0.20	0.10	0.00	0.00	0.00
15	207	0	52462	861018	2.80	2.30	1.80	1.30	0.90	0.20	0.00	0.00
				MINIMUM	0.50	0.40	0.30	0.20	0.10	0.00	0.00	0.00
				MAXIMUM	2.80	2.30	1.80	1.30	0.90	0.20	0.00	0.00
				MEAN	1.65	1.35	1.05	0.75	0.50	0.10	0.00	0.00
				STD. DEVIATION	1.15	0.95	0.75	0.55	0.40	0.10	0.00	0.00
				n	2	2	2	2	2	2	2	2
15	208	0	52463	861018	0.60	0.50	0.40	0.20	0.20	0.00	0.00	0.00
15	208	0	52464	861018	1.20	0.90	0.70	0.40	0.30	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
				MINIMUM	0.60	0.50	0.40	0.20	0.20	0.00	0.00	0.00
				MAXIMUM	1.20	0.90	0.70	0.40	0.30	0.00	0.00	0.00
				MEAN	0.90	0.70	0.55	0.30	0.25	0.00	0.00	0.00
				STD. DEVIATION	0.30	0.20	0.15	0.10	0.05	0.00	0.00	0.00
				n	2	2	2	2	2	2	2	2
15	213	67	52451	861018	0.20	0.10	0.10	0.10	0.00	0.00	0.00	0.00
15	213	67	52452	861018	0.80	0.70	0.60	0.40	0.30	0.10	0.00	0.00
15	213	467	52449	861018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	213	467	52450	861018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.80	0.70	0.60	0.40	0.30	0.10	0.00	0.00
				MEAN	0.25	0.20	0.18	0.13	0.08	0.03	0.00	0.00
				STD. DEVIATION	0.33	0.29	0.25	0.16	0.13	0.04	0.00	0.00
				n	4	4	4	4	4	4	4	4

15	216	590	52435	861018	0.50	0.30	0.30	0.20	0.10	0.00	0.00	0.00
15	216	590	52436	861018	0.50	0.50	0.40	0.20	0.10	0.00	0.00	0.00

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 3.73-2.63M	PARTICLES 2.63-1.69M	PARTICLES 1.69-1.01M	PARTICLES 1.01-0.66	PARTICLES 0.66-0.43M	PARTICLES 0.43-0.34	PARTICLES 0.34-0.24	PARTICLES 0.24-0.17
15	216	570	52437	861018	0.30	0.30	0.30	0.10	0.10	0.00	0.00	0.00
15	216	570	52438	861018	0.20	0.20	0.10	0.10	0.10	0.00	0.00	0.00
15	216	500	52439	861018	1.20	1.20	1.00	0.50	0.40	0.00	0.00	0.00
15	216	75	52441	861018	0.20	0.10	0.00	0.10	0.00	0.00	0.00	0.00
15	216	500	52440	861018	3.10	3.00	2.70	1.60	1.00	0.20	0.00	0.00
15	216	75	52442	861018	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00
				MINIMUM	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	3.10	3.00	2.70	1.60	1.00	0.20	0.00	0.00
				MEAN	0.76	0.71	0.60	0.35	0.23	0.03	0.00	0.00
				STD. DEVIATION	0.94	0.93	0.85	0.49	0.32	0.07	0.00	0.00
				n	8	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
15	18	635	52443	861018	3.30	4.50	4.20	2.60	2.50	2.40	2.10
15	18	635	52444	861018	3.80	4.00	4.10	2.60	1.80	2.20	1.50
15	18	615	52445	861018	0.10	0.30	0.40	0.20	0.40	0.30	0.20
15	18	615	52446	861018	0.30	0.30	0.20	0.20	0.20	0.20	0.20
15	18	545	52447	861018	0.10	0.30	0.40	0.30	0.30	0.20	0.20
15	18	545	52448	861018	0.20	0.30	0.50	0.30	0.20	0.10	0.20
				MINIMUM	0.10	0.30	0.20	0.20	0.20	0.10	0.20
				MAXIMUM	3.80	4.50	4.20	2.60	2.50	2.40	2.10
				MEAN	1.30	1.62	1.63	1.03	0.90	0.90	0.73
				STD. DEVIATION	1.60	1.87	1.78	1.11	0.91	0.99	0.77
				n	6	6	6	6	6	6	6
15	20	470	52425	861017	0.00	0.00	0.80	3.60	5.40	5.60	7.20
15	20	470	52426	861017	0.00	0.10	0.60	1.10	0.90	1.20	1.70
15	20	550	55549	861021	0.80	0.90	0.90	0.80	0.80	0.70	0.60
15	20	550	55550	861021	0.90	1.20	1.00	1.10	1.20	0.70	0.70
15	20	540	55551	861021	0.30	0.40	0.30	0.40	0.40	0.30	0.30
15	20	540	55552	861021	0.50	0.70	0.50	0.60	0.70	0.40	0.50

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM	0.00	0.00	0.30	0.40	0.40	0.30	0.30
				MAXIMUM	0.90	1.20	1.00	3.60	5.40	5.60	7.20
				MEAN	0.42	0.55	0.68	1.27	1.57	1.48	1.83
				STD. DEVIATION	0.35	0.43	0.24	1.07	1.73	1.86	2.44
				n	6	6	6	6	6	6	6
15	201	630	52429	861018	0.20	0.50	0.40	0.40	0.50	0.40	0.30
15	201	630	52430	861018	0.20	0.40	0.40	0.50	0.60	0.60	0.70
15	201	560	52431	861018	0.20	0.50	0.40	0.40	0.30	0.30	0.30
15	201	560	52432	861018	0.20	0.50	0.40	0.50	0.30	0.20	0.30
15	201	125	52433	861018	0.10	0.20	0.20	0.20	0.20	0.10	0.10
15	201	125	52434	861018	0.10	0.30	0.30	0.20	0.10	0.10	0.10
15	201	650	52427	861018	0.80	2.40	3.40	3.10	5.20	4.40	3.80
15	201	650	52428	861018	0.70	3.70	3.80	4.70	7.40	6.80	6.80

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM	0.10	0.20	0.20	0.20	0.10	0.10	0.10
				MAXIMUM	0.80	3.70	3.80	4.70	7.40	6.80	6.80
				MEAN	0.31	1.06	1.16	1.25	1.83	1.61	1.55
				STD. DEVIATION	0.26	1.20	1.41	1.59	2.65	2.38	2.30
				n	8	8	8	8	8	8	8
15	202	460	52417	861017	0.30	0.70	0.50	0.50	0.50	0.40	0.50
15	202	460	52418	861017	0.40	0.60	0.70	0.50	0.60	0.50	0.40
15	202	75	52419	861017	0.00	0.00	0.00	5.60	10.60	11.60	13.10
15	202	75	52420	861017	0.00	0.00	3.20	2.80	5.90	6.90	6.90
				MINIMUM	0.00	0.00	0.00	0.50	0.50	0.40	0.40
				MAXIMUM	0.40	0.70	3.20	5.60	10.60	11.60	13.10
				MEAN	0.18	0.33	1.10	2.35	4.40	4.85	5.23
				STD. DEVIATION	0.18	0.33	1.24	2.10	4.19	4.70	5.25
				n	4	4	4	4	4	4	4
15	204	0	52421	861017	0.80	1.00	0.90	0.70	0.80	0.70	0.60
15	204	0	52422	861017	0.90	1.10	0.80	0.80	1.00	0.70	0.80

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM	0.80	1.00	0.80	0.70	0.80	0.70	0.60
				MAXIMUM	0.90	1.10	0.90	0.80	1.00	0.70	0.80
				MEAN	0.85	1.05	0.85	0.75	0.90	0.70	0.70
				STD. DEVIATION	0.05	0.05	0.05	0.05	0.10	0.00	0.10
				n	2	2	2	2	2	2	2
15	205	0	52423	861018	0.20	0.30	0.40	0.30	0.30	0.30	0.20
15	205	0	52424	861018	0.30	0.60	0.40	0.50	0.50	0.40	0.40
				MINIMUM	0.20	0.30	0.40	0.30	0.30	0.30	0.20
				MAXIMUM	0.30	0.60	0.40	0.50	0.50	0.40	0.40
				MEAN	0.25	0.45	0.40	0.40	0.40	0.35	0.30
				STD. DEVIATION	0.05	0.15	0.00	0.10	0.10	0.05	0.10
				n	2	2	2	2	2	2	2
15	206	0	52459	861018	0.40	0.60	0.60	0.60	0.60	0.50	0.50
15	206	0	52460	861018	0.40	0.60	0.50	0.60	0.70	0.60	0.50

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM	0.40	0.60	0.50	0.60	0.60	0.50	0.50
				MAXIMUM	0.40	0.60	0.60	0.60	0.70	0.60	0.50
				MEAN	0.40	0.60	0.55	0.60	0.65	0.55	0.50
				STD. OEVIATION	0.00	0.00	0.05	0.00	0.05	0.05	0.00
				n	2	2	2	2	2	2	2
15	207	0	52461	861018	0.20	0.40	0.60	0.50	0.50	0.40	0.40
15	207	0	52462	861018	0.00	0.20	0.50	1.20	1.90	1.10	2.00
				MINIMUM	0.00	0.20	0.50	0.50	0.50	0.40	0.40
				MAXIMUM	0.20	0.40	0.60	1.20	1.90	1.10	2.00
				MEAN	0.10	0.30	0.55	0.85	1.20	0.75	1.20
				STD. DEVIATION	0.10	0.10	0.05	0.35	0.70	0.35	0.80
				n	2	2	2	2	2	2	2
15	208	0	52463	861018	0.90	1.50	1.30	1.40	1.60	1.20	0.80
15	208	0	52464	861018	1.80	2.40	1.70	2.20	2.10	1.60	1.40

APPENDIX 4.4
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	FS#	DISTANCE	DATE	PARTICLES 1000 2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999 704M	PARTICLES 704 501M	PARTICLES 500 352M	PARTICLES 352 250M	PARTICLES 250 176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLES 62 44M
				MINIMUM	5.90	38.70	1.30	0.00	2.90	6.00	5.70	3.50	0.00	0.00	0.00	0.00
				MAXIMUM	42.10	86.60	55.30	14.50	19.50	24.00	25.80	24.50	13.00	4.90	3.20	2.30
				MEAN	19.71	66.69	13.50	7.40	10.46	16.36	14.04	10.38	5.49	1.49	1.11	0.59
				STD. DEVIATION	11.83	15.20	19.08	5.26	6.48	5.57	7.03	7.93	4.70	1.68	1.27	0.94
				n	8	8	8	8	8	8	8	8	8	8	8	8
15	202	S2417	460	861017	18.80	76.90	4.10	5.40	13.80	25.40	19.30	8.20	2.80	0.80	0.50	0.20
15	202	S2418	460	861017	23.10	72.10	4.70	6.40	14.80	24.10	16.40	6.50	0.00	0.60	0.60	0.20
15	202	S2419	75	861017	4.00	12.60	83.30	0.90	1.30	2.20	1.80	1.60	1.80	1.10	0.90	0.70
15	202	S2420	75	861017	14.50	37.20	48.10	0.00	3.20	7.10	7.90	7.50	5.80	2.20	0.90	0.60
				MINIMUM	4.00	12.60	4.10	0.00	1.30	2.20	1.80	1.60	0.00	0.60	0.50	0.20
				MAXIMUM	23.10	76.90	83.30	6.40	14.80	25.40	19.30	8.20	5.80	2.20	0.90	0.70
				MEAN	15.10	49.70	35.05	3.18	8.28	14.70	11.35	5.95	2.60	1.18	0.73	0.43
				STD. DEVIATION	7.09	26.34	33.68	2.77	6.07	10.21	6.92	2.58	2.10	0.62	0.18	0.23
				n	4	4	4	4	4	4	4	4	4	4	4	4
15	204	S2421	0	861017	2.60	90.30	7.00	2.30	4.10	8.40	8.20	18.00	25.10	14.00	5.50	3.20
15	204	S2422	0	861017	2.60	89.90	7.50	2.60	4.60	8.40	7.40	15.30	23.90	15.70	7.00	3.50

APPENDIX 4 4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SW#	FS#	DISTANCE	DATE	PARTICLES 1000-2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999 704M	PARTICLES 704 500M	PARTICLES 500 352M	PARTICLES 352-250M	PARTICLES 250-176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLES 62 44M
				MINIMUM	2.60	89.90	7.00	2.30	4.10	8.40	7.40	15.30	23.90	14.00	5.50	3.20
				MAXIMUM	2.60	90.30	7.50	2.60	4.60	8.40	8.20	18.00	25.10	15.70	7.00	3.50
				MEAN	2.60	90.10	7.25	2.45	4.35	8.40	7.80	16.65	24.50	14.85	6.25	3.35
				STD. DEVIATION	0.00	0.20	0.25	0.15	0.25	0.00	0.40	1.35	0.60	0.85	0.75	0.15
				n	2	2	2	2	2	2	2	2	2	2	2	2
15	205	52423	0	861018	10.60	86.90	2.40	3.90	11.80	24.40	23.70	14.20	5.30	1.70	1.20	0.30
15	205	52424	0	861018	15.20	80.80	3.90	6.00	13.10	23.50	18.50	10.10	6.10	2.00	0.60	0.30
				MINIMUM	10.60	80.80	2.40	3.90	11.80	23.50	18.50	10.10	5.30	1.70	0.60	0.30
				MAXIMUM	15.20	86.90	3.90	6.00	13.10	24.40	23.70	14.20	6.10	2.00	1.20	0.30
				MEAN	12.90	83.85	3.15	4.95	12.45	23.95	21.10	12.15	5.70	1.85	0.90	0.30
				STD. DEVIATION	2.30	3.05	0.75	1.05	0.65	0.45	2.60	2.05	0.40	0.15	0.30	0.00
				n	2	2	2	2	2	2	2	2	2	2	2	2
15	206	52459	0	861018	5.60	89.60	4.80	0.00	2.90	9.90	12.10	23.30	24.20	9.80	4.50	2.20
15	206	52460	0	861018	5.70	89.30	5.00	1.30	4.30	12.70	16.30	24.50	19.20	5.40	3.50	1.60

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SW#	FS#	DISTANCE	DATE	PARTICLES 1000 2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999 704M	PARTICLES 704 500M	PARTICLES 500 352M	PARTICLES 352 250M	PARTICLES 250 176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLES 62 44M
				MINIMUM	5.60	89.30	4.80	0.00	2.90	9.90	12.10	23.30	19.20	5.40	3.50	1.60
				MAXIMUM	5.70	89.60	5.00	1.30	4.30	12.70	16.30	24.50	24.20	9.80	4.50	2.20
				MEAN	5.65	89.45	4.90	0.65	3.60	11.30	14.20	23.90	21.70	7.60	4.00	1.90
				STD. DEVIATION	0.05	0.15	0.10	0.65	0.70	1.40	2.10	0.60	2.50	2.20	0.50	0.30
				n	2	2	2	2	2	2	2	2	2	2	2	2
15	207	52461	0	861018	22.50	72.50	4.80	13.60	18.40	19.10	13.50	7.70	0.00	0.00	0.00	0.00
15	207	52462	0	861018	23.30	60.00	16.50	8.60	12.90	16.40	12.60	6.70	1.00	0.40	1.10	0.00
				MINIMUM	22.50	60.00	4.80	8.60	12.90	16.40	12.60	6.70	0.00	0.00	0.00	0.00
				MAXIMUM	23.30	72.50	16.50	13.60	18.40	19.10	13.50	7.70	1.00	0.40	1.10	0.00
				MEAN	22.90	66.25	10.65	11.10	15.65	17.75	13.05	7.20	0.50	0.20	0.55	0.00
				STD. DEVIATION	0.40	6.25	5.85	2.50	2.75	1.35	0.45	0.50	0.50	0.20	0.55	0.00
				n	2	2	2	2	2	2	2	2	2	2	2	2
15	208	52463	0	861018	11.20	77.90	10.70	1.90	4.50	10.40	12.90	19.80	15.90	5.40	4.20	2.40
15	208	52464	0	861018	0.00	83.30	16.60	3.80	5.70	10.90	11.90	18.90	18.90	7.60	3.20	1.80

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SW#	FS#	DISTANCE	DATE	PARTICLES 1000 2000 M	PARTICLES 45·1000 M	PARTICLES <45M	PARTICLES 999·704M	PARTICLES 704 500M	PARTICLES 500·352M	PARTICLES 352 250M	PARTICLES 250·176M	PARTICLES 176·125M	PARTICLES 125·88M	PARTICLES 88 62M	PARTICLES 62·44M
				MINIMUM	0.00	77.90	10.70	1.90	4.50	10.40	11.90	18.90	15.90	5.40	3.20	1.80
				MAXIMUM	11.20	83.30	16.60	3.80	5.70	10.90	12.90	19.80	18.90	7.60	4.20	2.40
				MEAN	5.60	80.60	13.65	2.85	5.10	10.65	12.40	19.35	17.40	6.50	3.70	2.10
				STD. DEVIATION	5.60	2.70	2.95	0.95	0.60	0.25	0.50	0.45	1.50	1.10	0.50	0.30
				n	2	2	2	2	2	2	2	2	2	2	2	2
15	213	52451	67	861018	33.60	63.90	2.40	11.60	17.00	18.50	12.40	4.10	0.00	0.00	0.00	0.00
15	213	52452	67	861018	23.20	71.40	5.30	9.30	16.40	21.50	17.20	6.80	0.00	0.00	0.00	0.00
15	213	52449	467	861018	4.10	95.20	0.60	2.20	14.80	35.60	31.50	10.70	0.00	0.00	0.00	0.00
15	213	52450	467	861018	3.60	95.80	0.50	2.10	16.10	35.90	31.50	10.00	0.00	0.00	0.00	0.00
				MINIMUM	3.60	63.90	0.50	2.10	14.80	18.50	12.40	4.10	0.00	0.00	0.00	0.00
				MAXIMUM	33.60	95.80	5.30	11.60	17.00	35.90	31.50	10.70	0.00	0.00	0.00	0.00
				MEAN	16.13	81.58	2.20	6.30	16.08	27.88	23.15	7.90	0.00	0.00	0.00	0.00
				STD. DEVIATION	12.82	14.18	1.94	4.23	0.80	7.95	8.52	2.64	0.00	0.00	0.00	0.00
				n	4	4	4	4	4	4	4	4	4	4	4	4
15	216	52435	590	861018	7.00	87.60	5.40	2.20	5.30	11.30	10.60	16.20	19.30	11.80	6.40	3.00
15	216	52436	590	861018	5.20	87.70	7.10	1.30	3.20	8.50	8.90	15.80	21.80	15.20	8.10	3.50
15	216	52437	570	861018	16.70	79.50	3.70	6.80	16.30	26.60	19.70	8.00	0.80	0.10	1.00	0.10

APPENDIX 4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	FS#	DISTANCE	DATE	PARTICLES 1000 2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999 704M	PARTICLES 704 500M	PARTICLES 500 352M	PARTICLES 352 250M	PARTICLES 250 176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLE 62 44
15	216	52438	570	861018	42.60	54.50	2.80	12.40	16.30	15.20	7.50	3.00	0.00	0.00	0.00	0.00
15	216	52439	500	861018	30.80	56.10	13.00	9.70	13.00	14.60	8.60	4.70	2.60	1.30	0.80	0.60
15	216	52441	75	861018	17.30	80.50	2.10	0.00	2.60	13.60	21.40	26.30	13.60	0.60	1.50	0.60
15	216	52440	500	861018	13.50	58.20	28.20	8.40	14.40	16.70	9.80	5.10	1.00	0.50	1.60	0.30
15	216	52442	75	861018	14.90	83.00	2.00	0.00	2.30	14.60	20.70	25.20	15.80	1.90	1.40	0.60
				MINIMUM	5.20	54.50	2.00	0.00	2.30	8.50	7.50	3.00	0.00	0.00	0.00	0.00
				MAXIMUM	42.60	87.70	28.20	12.40	16.30	26.60	21.40	26.30	21.80	15.20	8.10	3.50
				MEAN	18.50	73.39	8.04	5.10	9.18	15.14	13.40	13.04	9.36	3.93	2.60	1.09
				STD DEVIATION	11.64	13.57	8.34	4.52	5.97	4.94	5.66	8.66	8.58	5.62	2.76	1.27
				n	8	8	8	8	8	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SW#	FS#	DISTANCE	DATE	PARTICLES 1000-2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999-704M	PARTICLES 704-500M	PARTICLES 500-352M	PARTICLES 352-250M	PARTICLES 250 176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLES 62 44M
				MINIMUM	0.40	49.20	3.40	0.00	1.20	9.50	10.00	4 40	2.50	0.90	0.40	0.50
				MAXIMUM	18.60	95.30	45.00	7.70	14.40	25.20	21.50	24 50	26.80	14.70	6.60	2.90
				MEAN	6.05	80.67	13.22	4.27	9.05	16.13	13.93	13.50	12.10	6.13	3.17	1.53
				STD. DEVIATION	6.08	16.19	14.38	2.74	5.12	5.54	3.82	7.09	10.16	5.20	2.30	0.98
				n	6	6	6	6	6	6	6	6	6	6	6	6
15	201	52429	630	861018	19.90	76.60	3.40	9.40	17.00	24.00	17.10	6.80	1.70	0.40	0.00	0.00
15	201	52430	630	861018	27.20	67.60	5.10	8.30	14.20	20.60	14.60	6.10	2.60	1.00	0.00	0.00
15	201	52431	560	861018	30.30	66.60	3.10	14.50	19.50	18.80	8.80	3.90	0.70	0.00	0.00	0.00
15	201	52432	560	861018	42.10	54.90	2.90	13.10	16.30	14.10	7.90	3.50	0.00	0.00	0.00	0.00
15	201	52433	125	861018	12.00	86.60	1.30	0.00	2.90	18.70	25.80	24.50	11.20	1.10	1.80	0.00
15	201	52434	125	861018	13.10	85.20	1.50	0.00	4.20	18.80	23.40	23.10	13.00	0.90	1.00	0.30
15	201	52427	650	861018	7.20	57.30	35.40	3.50	6.00	9.90	9.00	9.20	8.90	4.90	3.20	2.10
15	201	52428	650	861018	5.90	38.70	55.30	10.40	3.60	6.00	5.70	5.90	5.80	3.60	2.90	2.30

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	FS#	DISTANCE	DATE	PARTICLES 1000 2000 M	PARTICLES 45 1000 M	PARTICLES <45M	PARTICLES 999 704M	PARTICLES 704 501M	PARTICLES 500 352M	PARTICLES 352 250M	PARTICLES 250 176M	PARTICLES 176 125M	PARTICLES 125 88M	PARTICLES 88 62M	PARTICLES 62 44M
15	18	52443	635	861018	0.80	72.90	26.20	0.00	0.00	5.00	4.80	9.60	15.80	15.30	11.80	7.20
15	18	52444	635	861018	0.90	75.00	24.00	0.00	0.90	5.90	6.00	10.50	15.60	14.40	11.70	7.00
15	18	52445	615	861018	17.50	79.80	2.60	8.30	15.60	22.90	19.20	11.30	2.20	0.00	0.00	0.00
15	18	52446	615	861018	18.80	79.00	2.00	9.60	17.50	23.70	17.50	9.30	1.10	0.00	0.00	0.00
15	18	52447	545	861018	37.10	60.40	2.40	8.90	13.70	17.20	13.50	6.80	0.00	0.00	0.00	0.00
15	18	52448	545	861018	28.50	69.30	2.10	8.20	14.00	19.90	17.20	9.80	0.00	0.00	0.00	0.00
				MINIMUM	0.80	60.40	2.00	0.00	0.00	5.00	4.80	6.80	0.00	0.00	0.00	0.00
				MAXIMUM	37.10	79.80	26.20	9.60	17.50	23.70	19.20	11.30	15.80	15.30	11.80	7.20
				MEAN	17.27	72.73	9.88	5.83	10.28	15.77	13.03	9.55	5.78	4.95	3.92	2.37
				STD. DEVIATION	13.30	6.56	10.78	4.15	7.07	7.60	5.67	1.39	7.05	7.01	5.54	3.35
				n	6	6	6	6	6	6	6	6	6	6	6	6
15	20	52425	470	861017	5.80	49.20	45.00	5.00	10.00	14.90	10.00	4.40	2.50	0.90	0.60	0.50
15	20	52426	470	861017	18.60	71.30	10.00	7.70	14.30	21.10	14.90	7.20	3.80	1.10	0.40	0.50
15	20	55549	550	861021	3.10	89.80	7.00	4.80	14.40	25.20	21.50	13.10	4.10	2.20	2.80	1.10
15	20	55550	550	861021	7.10	84.10	8.70	6.70	11.20	15.60	12.30	11.10	10.10	7.40	5.50	2.90
15	20	55551	540	861021	1.30	95.30	3.40	1.40	3.20	10.50	14.30	24.50	25.30	10.50	3.10	1.40
15	20	55552	540	861021	0.40	94.30	5.20	0.00	1.20	9.50	10.60	20.70	26.80	14.70	6.60	2.80

15	216	590	52435	861018	0.50	0.60	0.40	0.60	0.70	0.50	0.60
15	216	590	52436	861018	0.70	0.90	1.00	0.80	0.60	0.60	0.80

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
15	216	570	52437	861018	0.20	0.40	0.40	0.30	0.40	0.50	0.40
15	216	570	52438	861018	0.20	0.40	0.20	0.30	0.40	0.30	0.30
15	216	500	52439	861018	0.40	0.80	1.60	1.10	1.70	1.70	1.40
15	216	75	52441	861018	0.30	0.40	0.20	0.20	0.20	0.20	0.20
15	216	500	52440	861018	0.90	1.80	1.60	2.50	2.90	3.40	3.60
15	216	75	52442	861018	0.30	0.30	0.30	0.20	0.20	0.20	0.10
				MINIMUM	0.20	0.30	0.20	0.20	0.20	0.20	0.10
				MAXIMUM	0.90	1.80	1.60	2.50	2.90	3.40	3.60
				MEAN	0.44	0.70	0.71	0.75	0.89	0.93	0.93
				STD. DEVIATION	0.23	0.46	0.56	0.73	0.88	1.04	1.08
				n	8	8	8	8	8	8	8

APPENDIX 4.4:
BOTTOM SEDIMENT
AMBIENT DATA PARAMETER REPORT
VALUES EXPRESSED AS A PERCENTAGE

BODY OF WATER	SN#	DISTANCE	FS#	DATE	PARTICLES 42.2-29.8M	PARTICLES 29.8-21.1M	PARTICLES 21.4-14.9M	PARTICLES 14.9-10.5M	PARTICLES 10.5-7.5M	PARTICLES 7.46-5.2M	PARTICLES 5.27-3.7M
				MINIMUM	0.90	1.50	1.30	1.40	1.60	1.20	0.80
				MAXIMUM	1.80	2.40	1.70	2.20	2.10	1.60	1.40
				MEAN	1.35	1.95	1.50	1.80	1.85	1.40	1.10
				STD. DEVIATION	0.45	0.45	0.20	0.40	0.25	0.20	0.30
				n	2	2	2	2	2	2	2
15	213	67	52451	861018	0.20	0.30	0.30	0.30	0.30	0.20	0.20
15	213	67	52452	861018	0.00	0.00	0.00	0.40	0.60	0.60	0.80
15	213	467	52449	861018	0.10	0.10	0.10	0.00	0.10	0.00	0.10
15	213	467	52450	861018	0.00	0.10	0.10	0.10	0.00	0.00	0.00
				MINIMUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				MAXIMUM	0.20	0.30	0.30	0.40	0.60	0.60	0.80
				MEAN	0.08	0.13	0.13	0.20	0.25	0.20	0.28
				STD. DEVIATION	0.08	0.11	0.11	0.16	0.23	0.24	0.31
				n	4	4	4	4	4	4	4

APPENDIX 5

RESULTS FROM INVESTIGATIVE AMBIENT WATER SAMPLING

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
9	1.0	830	51275	860529	85.4	11.20	16.6	1.8	25.60			
9	5.9	830	51276	860529	85.4	11.10	18.2	1.8	5.10	0.0007	0.00	0.000
9	1.0	830	51377	860717	84.0	10.10	19.0	1.7	4.70			
9	7.9	830	51378	860717	84.1	9.80	19.0	1.8	4.50	0.0000	0.01	0.000
9	1.0	830	54681	861023	81.0	10.20	18.2	1.7	3.50			
9	7.9	830	54682	861023	81.3	10.50	18.4	1.7	4.80	0.0000	0.00	0.000
			AVERAGE		83.5	10.48	18.2	1.8	8.03	0.0002	0.00	0.000
			STD DEVIATION		1.8	0.51	0.8	0.1	7.87	0.0003	0.00	0.000
			MINIMUM		81.0	9.80	16.6	1.7	3.50	0.0000	0.00	0.000
			MAXIMUM		85.4	11.20	19.0	1.8	25.60	0.0007	0.01	0.000
			n		6	6	6	6	6	3	3	3
18	1.0	545	51267	860529	85.1	6.90	10.0	0.8	2.10			
18	12.4	545	51268	860529	85.4	6.70	18.0	1.8	2.70	0.0000	0.00	0.000
18	1.0	545	51369	860717	84.2	6.45	19.0	1.5	3.70			
18	10.4	545	51370	860717	84.0	6.55	18.8	1.6	4.10	0.0000	0.01	0.000
18	1.0	545	54673	861022	81.8	22.30	18.6	1.8	3.60			
18	9.9	545	54674	861022	81.2	11.80	18.6	1.6	3.00	0.0000	0.00	0.000
			AVERAGE		83.6	10.12	17.2	1.5	3.20	0.0000	0.00	0.000
			STD DEVIATION		1.6	5.77	3.2	0.3	0.67	0.0000	0.00	0.000
			MINIMUM		81.2	6.45	10.0	0.8	2.10	0.0000	0.00	0.000
			MAXIMUM		85.4	22.30	19.0	1.8	4.10	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3
18	1.0	615	51265	860529	85.6	34.70	18.4	1.9	3.60			
18	10.4	615	51266	860529	85.4	25.50	17.4	1.9	2.50	0.0000	0.01	0.000
18	1.0	615	51367	860717	83.8	14.40	18.8	1.7	3.90			
18	7.9	615	51368	860717	86.6	9.35	18.8	1.6	6.00	0.0000	0.01	0.000
18	1.0	615	54671	861022	81.8	52.00	18.6	1.6	4.10			
18	4.9	615	54672	861022	82.0	47.20	18.4	1.6	4.40	0.0000	0.00	0.000

APPENDIX 6: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.2	30.53	18.4	1.7	4.08	0.0000	0.01	0.000
			STD DEVIATION		1.8	15.76	0.5	0.1	1.04	0.0000	0.00	0.000
			MINIMUM		81.8	9.35	17.4	1.6	2.50	0.0000	0.00	0.000
			MAXIMUM		86.6	52.00	18.8	1.9	6.00	0.0000	0.01	0.000
			n		6	6	6	6	6	3	1	1
18	1.0	635	51263	860529	85.5	52.00	17.6	2.0	2.40	0.0000	0.00	0.000
18	5.9	635	51264	860529	85.6	48.50	18.6	2.0	3.10	0.0000	0.00	0.000
18	1.0	635	51365	860714	84.7	67.50	18.6	1.7	4.30	0.0000	0.02	0.000
18	5.9	635	51366	860714	84.0	64.00	18.8	1.8	4.70	0.0000	0.01	0.000
18	1.0	635	54669	861022	82.1	49.00	18.6	1.6	4.00	0.0000	0.00	0.000
18	2.9	635	54670	861022	81.9	48.00	18.6	1.6	4.50	0.0000	0.00	0.000
			AVERAGE		84.0	54.83	18.5	1.8	3.83	0.0000	0.01	0.000
			STD DEVIATION		1.5	7.89	0.4	0.2	0.82	0.0000	0.01	0.000
			MINIMUM		81.9	48.00	17.6	1.6	2.40	0.0000	0.00	0.000
			MAXIMUM		85.6	67.50	18.8	2.0	4.70	0.0000	0.02	0.000
			n		6	6	6	6	5	4	4	4
20	1.0	470	51225	860528	85.4	6.85	17.6	1.8	2.40			
20	12.0	470	51226	860528	85.3	6.85	17.8	1.7	5.60	0.0000	0.00	0.000
20	1.0	470	51327	860716	84.2	6.70	19.2	1.7	2.80			
20	9.9	470	51328	860716	83.8	6.70	19.4	1.7	5.40	0.0000	0.01	0.000
20	1.0	470	54631	861021	82.2	6.40	18.4	1.7	3.40			
20	8.9	470	54632	861021	82.2	6.30	18.4	1.6	3.60	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.9	6.63	18.5	1.7	3.87	0.0000	0.00	0.000
			STD DEVIATION		1.3	0.21	0.7	0.1	1.22	0.0000	0.00	0.000
			MINIMUM		82.2	6.30	17.6	1.6	2.40	0.0000	0.00	0.000
			MAXIMUM		85.4	6.85	19.4	1.8	5.60	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3
20	1.0	540	51223	860528	85.4	7.45	15.2	1.8	3.20			
20	7.0	540	51224	860528	85.4	7.25	17.4	1.7	3.30	0.0000	0.00	0.000
20	1.0	540	51325	860716	84.1	6.65	19.0	1.6	3.20			
20	6.4	540	51326	860716	84.0	6.80	19.2	1.8	4.30	0.0000	0.02	0.000
20	1.0	540	54629	861021	82.0	6.30	18.4	1.6	3.50			
20	6.9	540	54630	861021	82.1	6.45	18.4	1.7	4.30	0.0000	0.00	0.000
			AVERAGE		83.8	6.82	17.9	1.7	3.63	0.0000	0.01	0.000
			STD DEVIATION		1.4	0.41	1.3	0.1	0.48	0.0000	0.01	0.000
			MINIMUM		82.0	6.30	15.2	1.6	3.20	0.0000	0.00	0.000
			MAXIMUM		85.4	7.45	19.2	1.8	4.30	0.0000	0.02	0.000
			n		6	6	6	6	6	3	3	3
20	1.0	550	51221	860527	85.4	8.10	16.8	1.8	3.30	0.0000	0.00	0.000
20	3.4	550	51222	860527	85.4	7.00	16.2	1.8	3.20	0.0000	0.00	0.000
20	1.0	550	51323	860716	84.1	6.90	18.8	1.5	3.80	0.0000	0.00	0.000
20	3.9	550	51324	860716	84.0	6.85	18.8	1.5	5.20	0.0000	0.03	0.000
20	1.0	550	54627	861021	81.9	7.20	18.4	1.6	3.70	0.0000	0.01	0.000
20	2.9	550	54628	861021	82.0	6.65	18.2	1.7	4.00	0.0000	0.00	0.000
20	1.0	550	51285	860527	85.2	9.20	15.2	1.8	4.20	0.0000	0.00	0.000
20	3.4	550	51286	860527	85.2	6.85	17.0	1.8	2.70	0.0060	0.00	0.000
20	1.0	550	51387	860716	83.9	11.80	18.4	1.4	3.50	0.0000	0.02	0.000
20	3.9	550	51388	860716	84.1	6.90	18.2	1.5	5.40	0.0000	0.01	0.000
20	1.0	550	54691	861021	81.5	7.85	18.2	1.6	3.90	0.0000	0.00	0.000
20	2.9	550	54692	861021	81.5	6.80	18.6	1.6	3.90	0.0000	0.02	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. Shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.7	7.68	17.7	1.6	3.90	0.0005	0.01	0.000
			STD DEVIATION		1.5	1.43	1.1	0.1	0.74	0.0017	0.01	0.000
			MINIMUM		81.5	6.65	15.2	1.4	2.70	0.0000	0.00	0.000
			MAXIMUM		85.4	11.80	18.8	1.8	5.40	0.0060	0.03	0.000
			n		12	12	12	12	12	12	12	12
22	1.0	475	51211	860527	85.4	4.15	15.2	1.5	2.90			
22	12.4	475	51212	860527	85.1	6.70	17.6	1.9	60.70	0.0000	0.00	0.000
22	1.0	475	51311	860716	84.2	6.40	19.0	1.7	2.80	0.0000	0.00	0.000
22	10.9	475	51312	860716	84.3	6.45	18.8	1.7	3.00	0.0000	0.01	0.000
22	1.0	475	54615	861020	82.2	5.95	18.2	1.4	3.20			
22	10.9	475	54616	861020	82.1	5.90	18.2	1.3	3.80	0.0000	0.00	0.000
			AVERAGE		83.9	5.93	17.8	1.6	13.20	0.0000	0.00	0.000
			STD DEVIATION		1.3	0.84	1.3	0.2	21.26	0.0000	0.00	0.000
			MINIMUM		82.1	4.15	15.2	1.3	2.80	0.0000	0.00	0.000
			MAXIMUM		85.4	6.70	19.0	1.9	60.70	0.0000	0.01	0.000
			n		6	6	6	6	6	4	4	4
22	1.0	545	51209	860527	85.3	7.50	17.8	1.7	2.40	0.0000	0.01	0.000
22	3.4	545	51210	860527	85.3	7.50	17.4	1.9	2.50	0.0000	0.00	0.000
22	1.0	545	51309	860716	84.2	6.8	18.8	1.6	3.20	0.0000	0.00	0.000
22	3.9	545	51310	860716	84.1	6.90	18.8	1.7	3.50	0.0000	0.00	0.000
22	1.0	545	54613	861020	82.1	6.40	18.4	1.5	7.60			
22	3.9	545	54614	861020	82.1	7.30	18.6	1.9	3.00	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.9	7.08	18.3	1.7	3.70	0.0000	0.00	0.000
			STD DEVIATION		1.3	0.41	0.5	0.1	1.79	0.0000	0.00	0.000
			MINIMUM		82.1	6.40	17.4	1.5	2.40	0.0000	0.00	0.000
			MAXIMUM		85.3	7.55	18.8	1.9	7.60	0.0000	0.00	0.000
			n		6	6	6	6	6	5	5	5
25	1.0	60	51199	860526	87.6	7.10	18.8	2.0	5.40			
25	11.9	60	51200	860526	86.7	5.45	14.4	12.1	4.30	0.0000	0.00	0.000
25	1.0	60	51299	860715	84.6	6.20	19.2	1.7	3.40			
25	2.0	60	51300	860715	84.3	6.10	19.6	1.7	3.20	0.0002	0.00	0.000
25	1.0	60	54603	861020	81.6	5.85	17.2	1.2	9.60			
25	4.4	60	54604	861020	81.6	5.80	16.6	1.3	6.50	0.0000	0.00	0.000
			AVERAGE		84.4	6.08	17.6	3.3	5.40	0.0001	0.00	0.000
			STD DEVIATION		2.3	0.51	1.8	3.9	2.19	0.0001	0.00	0.000
			MINIMUM		81.6	5.45	14.4	1.2	3.20	0.0000	0.00	0.000
			MAXIMUM		87.6	7.10	19.6	12.1	9.60	0.0002	0.00	0.000
			n		6	6	6	6	6	3	3	3
25	1.0	330	51198	860526	85.1	6.60	18.6	7.7	3.40	0.0000	0.00	0.000
25	3.0	330	51197	860526	85.1	6.40	15.4	2.0	3.40			
25	1.0	330	51297	860715	84.2	6.35	19.2	1.8	4.60			
25	3.4	330	51298	860715	84.1	6.15	19.0	1.8	4.70	0.0000	0.01	0.000
25	1.0	330	54601	861020	84.5	6.05	19.0	1.4	6.90			
25	3.9	330	54602	861020	84.4	6.20	18.4	1.4	2.50	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.6	6.29	18.3	2.7	4.25	0.0000	0.00	0.000
			STD DEVIATION		0.4	0.18	1.3	2.3	1.41	0.0000	0.00	0.000
			MINIMUM		84.1	6.05	15.4	1.4	2.50	0.0000	0.00	0.000
			MAXIMUM		85.1	6.60	19.2	7.7	6.90	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3
116	1.0	570	51219	860527	85.3	7.05	13.2	1.8	3.20			
116	11.4	570	51220	860527	85.2	3.25	21.2	2.1	3.10	0.0000	0.00	0.000
116	1.0	570	51321	860716	84.4	6.75	18.8	1.3	3.60			
116	9.9	570	51322	860716	83.9	6.75	19.0	1.4	4.70	0.0000	0.01	0.000
116	1.0	570	54625	861021	82.2	6.55	18.2	1.6	3.60			
116	9.9	570	54626	861021	82.0	6.60	18.4	1.6	3.90	0.0000	0.00	0.000
			AVERAGE		83.8	6.16	18.1	1.6	3.68	0.0000	0.00	0.000
			STD DEVIATION		1.3	1.31	2.4	0.3	0.53	0.0000	0.00	0.000
			MINIMUM		82.0	3.25	13.2	1.3	3.10	0.0000	0.00	0.000
			MAXIMUM		85.3	7.05	21.2	2.1	4.70	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3
116	1.0	590	51217	860527	85.2	7.55	17.6	1.8	4.30	0.0000	0.00	0.000
116	5.9	590	51218	860527	85.3	7.80	17.6	1.7	14.20	0.0000	0.00	0.000
116	1.0	590	51319	860716	84.2	6.70	19.2	1.6	3.80	0.0000	0.01	0.000
116	3.9	590	51320	860716	84.1	7.00	19.0	1.5	11.80	0.0000	0.00	0.000
116	1.0	590	54623	861021	82.0	6.75	18.6	1.5	3.50	0.0000	0.01	0.000
116	4.9	590	54624	861021	82.1	6.65	18.4	1.6	4.50	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKAL-INITY mg/L	CHLOR-IDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.8	7.08	18.4	1.6	7.02	0.0000	0.00	0.000
			STD DEVIATION		1.3	0.44	0.6	0.1	4.30	0.0000	0.00	0.000
			MINIMUM		82.0	6.65	17.6	1.5	3.50	0.0000	0.00	0.000
			MAXIMUM		85.3	7.80	19.2	1.8	14.20	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
119	1.0	375	51213	860527	85.2	6.40	18.4	1.8	2.50	0.0000	0.00	0.000
119	6.9	375	51214	860527	85.5	6.85	15.0	1.9	2.90	0.0000	0.00	0.000
119	1.0	375	51315	860716	84.2	6.80	19.0	2.1	3.10	0.0000	0.00	0.000
119	8.4	375	51316	860716	84.1	6.85	19.2	1.6	6.90	0.0000	0.00	0.000
119	1.0	375	54619	861021	82.1	6.20	18.2	1.5	3.30	0.0000	0.00	0.000
119	5.9	375	54620	861021	82.0	6.15	18.2	1.7	3.40	0.0000	0.00	0.000
			AVERAGE		83.9	6.54	18.0	1.8	3.68	0.0000	0.00	0.000
			STD DEVIATION		1.4	0.30	1.4	0.2	1.47	0.0000	0.00	0.000
			MINIMUM		82.0	6.15	15.0	1.5	2.50	0.0000	0.00	0.000
			MAXIMUM		85.5	6.85	19.2	2.1	6.90	0.0000	0.00	0.000
			n		6	6	6	6	6	6	6	6
119	1.0	475	51317	860716	84.1	6.45	19.0	1.6	3.80			
119	9.9	475	51318	860716	84.0	6.45	18.8	1.5	4.00	0.0000	0.00	0.000
119	1.0	475	54621	861021	82.0	6.05	18.8	1.6	3.70	0.0000	0.01	0.000
119	9.9	475	54622	861021	82.0	6.50	18.8	1.6	3.90	0.0000	0.01	0.000
			AVERAGE		83.0	6.36	18.9	1.6	3.85	0.0000	0.01	0.000
			STD DEVIATION		1.0	0.18	0.1	0.0	0.11	0.0000	0.00	0.000
			MINIMUM		82.0	6.05	18.8	1.5	3.70	0.0000	0.00	0.000
			MAXIMUM		84.1	6.50	19.0	1.6	4.00	0.0000	0.01	0.000
			n		4	4	4	4	4	3	3	3

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
132	1.0	0	51201	860526	85.4	6.60	15.8	1.9	3.10			
132	8.9	0	51202	860526	85.3	6.55	17.6	2.0	3.80	0.0000	0.00	0.000
132	1.0	0	51301	860714	84.2	6.20	19.2	1.7	5.90			
132	9.9	0	51302	860714	84.2	6.05	19.2	1.7	3.20	0.0000	0.00	0.000
132	1.0	0	54605	861020	82.2	5.95	16.8	1.5	7.10			
132	11.9	0	54606	861020	82.5	6.05	17.2	1.6	5.00	0.0000	0.00	0.000
			AVERAGE		84.0	6.23	17.6	1.7	4.68	0.0000	0.00	0.000
			STD DEVIATION		1.2	0.25	1.2	0.2	1.47	0.0000	0.00	0.000
			MINIMUM		82.2	5.95	15.8	1.5	3.10	0.0000	0.00	0.000
			MAXIMUM		85.4	6.60	19.2	2.0	7.10	0.0000	0.00	0.000
			n		6	6	6	6	6	3	3	3
133	1.0	0	51203	860526	88.6	7.70	17.8	2.0	3.30			
133	11.9	0	51204	860526	88.3	7.40	18.2	1.9	20.00	0.0000	0.00	0.010
133	1.0	0	51303	860716	84.9	6.55	19.2	1.6	2.00			
133	9.9	0	51304	860716	84.5	6.40	19.2	1.6	2.80	0.0000	0.00	0.000
133	1.0	0	54607	861020	83.4	6.30	18.0	2.0	2.80			
133	9.9	0	54608	861020	82.3	6.15	18.2	1.9	3.40	0.0000	0.00	0.006
			AVERAGE		85.3	6.75	18.4	1.8	5.72	0.0000	0.00	0.003
			STD DEVIATION		2.4	0.58	0.6	0.2	6.40	0.0000	0.00	0.005
			MINIMUM		82.3	6.15	17.8	1.6	2.00	0.0000	0.00	0.000
			MAXIMUM		88.6	7.70	19.2	2.0	20.00	0.0000	0.00	0.010
			n		6	6	6	6	6	3	3	3
201	1.0	125	51243	860528	88.0	7.40	18.8	2.0	3.60			
201	8.9	125	51244	860528	87.7	7.35	18.8	2.2	12.20	0.0000	0.00	0.000
201	1.0	125	51345	860717	84.1	6.35	19.2	1.7	2.90			
201	7.4	125	51346	860717	84.5	6.35	18.8	1.6	3.40	0.0000	0.01	0.000
201	1.0	125	54649	861022	83.5	6.20	18.8	1.9	3.00			
201	6.9	125	54650	861022	83.1	6.10	19.2	1.9	5.60	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		85.2	6.63	18.9	1.9	5.12	0.0000	0.00	0.000
			STD DEVIATION		2.0	0.54	0.2	0.2	3.29	0.0000	0.00	0.000
			MINIMUM		83.1	6.10	18.8	1.6	2.90	0.0000	0.00	0.000
			MAXIMUM		88.0	7.40	19.2	2.2	12.20	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3
201	1.0	560	51241	860528	85.4	6.95	14.4	1.9	5.60			
201	11.9	560	51242	860528	85.5	6.70	15.2	1.9	9.50	0.0000	0.00	0.000
201	10.9	560	51344	860710	83.8	6.20	19.2	1.7	2.90	0.0000	0.00	0.000
201	1.0	560	51343	860717	83.9	6.75	19.2	2.0	2.80			
201	1.0	560	54647	861022	81.9	5.90	18.4	1.7	2.30			
201	8.0	560	54648	861022	82.0	5.85	18.2	1.9	2.30	0.0000	0.00	0.000
			AVERAGE		83.8	6.39	17.4	1.9	4.23	0.0000	0.00	0.000
			STD DEVIATION		1.4	0.43	1.9	0.1	2.61	0.0000	0.00	0.000
			MINIMUM		81.9	5.85	14.4	1.7	2.30	0.0000	0.00	0.000
			MAXIMUM		85.5	6.95	19.2	2.0	9.50	0.0000	0.00	0.000
			n		6	6	6	6	6	3	3	3
201	1.0	630	51239	860528	85.6	7.25	13.8	1.9	2.50			
201	8.4	630	51240	860528	85.5	7.90	17.8	1.8	23.70	0.0000	0.00	0.000
201	1.0	630	51341	860717	83.8	7.25	19.4	1.9	3.40			
201	7.9	630	51342	860717	85.0	7.10	19.4	1.8	4.20	0.0000	0.02	0.000
201	1.0	630	54645	861022	82.0	6.60	18.6	1.8	3.00			
201	6.9	630	54646	861022	82.0	6.15	18.4	1.7	3.50	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.0	7.04	17.9	1.8	6.72	0.0000	0.01	0.000
			STD DEVIATION		1.5	0.55	1.9	0.1	7.61	0.0000	0.01	0.000
			MINIMUM		82.0	6.15	13.8	1.7	2.50	0.0000	0.00	0.000
			MAXIMUM		85.6	7.90	19.4	1.9	23.70	0.0000	0.02	0.000
			n		6	6	6	6	6	3	3	3
201	1.0	650	51237	860528	85.5	9.45	16.6	1.8	2.60	0.0000	0.01	0.000
201	5.4	650	51238	860528	85.5	7.65	16.2	1.8	2.60	0.0000	0.00	0.000
201	1.0	650	51339	860717	83.7	8.50	19.2	1.9	4.20	0.0000	0.01	0.000
201	3.9	650	51340	860717	83.6	7.50	19.0	2.0	4.20	0.0000	0.01	0.000
201	1.0	650	54643	861022	81.9	7.05	18.0	1.8	3.20	0.0000	0.00	0.000
201	3.4	650	54644	861022	81.9	6.50	18.0	1.8	3.40	0.0000	0.00	0.000
			AVERAGE		83.7	7.78	17.8	1.9	3.37	0.0000	0.01	0.000
			STD DEVIATION		1.5	0.96	1.1	0.1	0.66	0.0000	0.01	0.000
			MINIMUM		81.9	6.50	16.2	1.8	2.60	0.0000	0.00	0.000
			MAXIMUM		85.5	9.45	19.2	2.0	4.20	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
202	1.0	75	51205	860527	85.4	7.10	18.2	1.9	2.60	0.0000	0.00	0.000
202	7.9	75	51206	860527	85.2	6.65	19.0	1.8	2.60	0.0000	0.00	0.000
202	1.0	75	51305	860716	84.7	6.10	19.0	1.6	2.90	0.0000	0.00	0.000
202	9.9	75	51306	860716	84.3	6.10	18.8	1.7	2.50	0.0000	0.01	0.000
202	1.0	75	54611	861020	84.7	6.70	19.8	2.0	3.50			
202	9.9	75	54612	861020	84.7	6.60	19.6	2.1	4.20	0.0000	0.01	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.8	6.54	19.1	1.9	3.05	0.0000	0.00	0.000
			STD DEVIATION		0.4	0.35	0.5	0.2	0.61	0.0000	0.00	0.000
			MINIMUM		84.3	6.10	18.2	1.6	2.50	0.0000	0.00	0.000
			MAXIMUM		85.4	7.10	19.8	2.1	4.20	0.0000	0.01	0.000
			n		6	6	6	6	6	5	5	5
202	1.0	460	51208	860526	89.4	7.80	18.8	2.1	3.90			
202	6.4	460	51207	860526	89.3	7.70	19.6	2.2	4.60	0.0000	0.00	0.000
202	1.0	460	51308	860716	84.3	6.05	19.0	1.7	3.30	0.0000	0.01	0.000
202	8.9	460	51307	860716	84.4	6.05	19.0	1.6	3.10	0.0000	0.00	0.000
202	1.0	460	54609	861020	81.9	6.00	18.6	1.6	5.70			
202	11.9	460	54610	861020	82.0	6.00	18.4	1.5	4.80	0.0000	0.00	0.000
			AVERAGE		85.2	6.60	18.9	1.8	4.23	0.0000	0.00	0.000
			STD DEVIATION		3.1	0.81	0.4	0.3	0.90	0.0000	0.00	0.000
			MINIMUM		81.9	6.00	18.4	1.5	3.10	0.0000	0.00	0.000
			MAXIMUM		89.4	7.80	19.6	2.2	5.70	0.0000	0.01	0.000
			n		6	6	6	6	6	4	4	4
203	1.0	0	51215	860527	85.2	4.45	14.0	2.3	2.80	0.0000	0.00	0.000
203	9.9	0	51216	860527	85.1	7.90	17.6	1.9	3.70	0.0000	0.00	0.000
203	1.0	0	51313	860714	84.1	6.50	18.8	1.8	3.60	0.0000	0.00	0.000
203	11.9	0	51314	860714	92.2	47.50	20.2	3.0	4.60	0.0000	0.00	0.000
203	1.0	0	54617	861021	81.8	6.15	18.2	1.4	2.60	0.0000	0.01	0.000
203	7.5	0	54618	861021	89.9	42.70	20.0	3.8	5.90	0.0000	0.01	0.000
203	1.0	0	51281	860527	85.3	6.60	18.2	1.9	4.70	0.0003	0.00	0.000
203	9.9	0	51282	860527	86.4	7.25	17.8	1.8	3.60	0.0003	0.00	0.000
203	1.0	0	51383	860714	84.3	6.75	18.4	1.5	3.70	0.0000	0.01	0.000
203	11.9	0	51384	860714	86.9	32.30	18.8	2.2	4.50	0.0000	0.01	0.000
203	1.0	0	54687	861021	81.6	6.10	18.4	1.	3.00	0.0000	0.00	0.000
203	7.5	0	54688	861021	90.6	46.40	20.8	3	4.40	0.0000	0.01	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		86.1	18.38	18.4	2.2	3.93	0.0001	0.00	0.000
			STD DEVIATION		3.2	17.23	1.6	0.8	0.90	0.0001	0.00	0.000
			MINIMUM		81.6	4.45	14.0	1.4	2.60	0.0000	0.00	0.000
			MAXIMUM		92.2	47.50	20.8	3.8	5.90	0.0003	0.01	0.000
			n		12	12	12	12	12	12	12	12
204	1.0	0	51227	860528	86.1	15.20	18.8	1.8	3.10	0.0000	0.00	0.000
204	3.5	0	51228	860528	85.3	7.90	18.0	1.8	2.80	0.0000	0.00	0.000
204	1.0	0	51329	860716	83.3	14.00	19.4	1.7	3.90	0.0000	0.03	0.000
204	2.4	0	51330	860716	83.3	7.65	19.2	1.7	3.50	0.0000	0.01	0.000
204	1.0	0	54633	861022	82.1	6.60	17.8	1.7	3.10	0.0000	0.00	0.000
204	2.4	0	54634	861022	82.0	6.55	18.2	1.5	2.90	0.0000	0.00	0.000
			AVERAGE		83.7	9.65	18.6	1.7	3.22	0.0000	0.01	0.000
			STD DEVIATION		1.5	3.55	0.6	0.1	0.38	0.0000	0.01	0.000
			MINIMUM		82.0	6.55	17.8	1.5	2.80	0.0000	0.00	0.000
			MAXIMUM		86.1	15.20	19.4	1.8	3.90	0.0000	0.03	0.000
			n		6	6	6	6	6	6	6	6
205	1.0	0	51229	860528	85.4	9.55	17.4	1.8	2.80	0.0000	0.00	0.000
205	8.4	0	51230	860528	85.4	7.45	17.0	1.7	3.20	0.0000	0.00	0.000
205	1.0	0	51331	860716	83.6	6.90	19.2	1.8	3.20	0.0000	0.01	0.000
205	6.9	0	51332	860716	83.8	7.30	19.4	2.3	4.00	0.0000	0.01	0.000
205	1.0	0	54635	861022	82.0	6.60	18.2	1.5	3.00	0.0000	0.00	0.000
205	5.9	0	54636	861022	82.0	6.60	18.4	1.5	2.70	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.7	7.40	18.3	1.8	3.15	0.0000	0.00	0.000
			STD DEVIATION		1.4	1.01	0.9	0.3	0.42	0.0000	0.00	0.000
			MINIMUM		82.0	6.60	17.0	1.5	2.70	0.0000	0.00	0.000
			MAXIMUM		85.4	9.55	19.4	2.3	4.00	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
206	1.0	0	51231	860528	85.9	8.60	16.2	1.7	2.70	0.0000	0.00	0.000
206	4.4	0	51232	860528	85.3	7.75	17.6	1.7	2.70	0.0000	0.00	0.000
206	1.0	0	51333	860715	83.7	7.80	19.2	1.8	3.40	0.0000	0.00	0.000
206	6.9	0	51334	860715	83.8	7.15	19.2	1.7	4.20	0.0000	0.00	0.000
206	1.0	0	54637	861022	82.2	6.65	18.4	1.8	2.80	0.0000	0.00	0.000
206	1.9	0	54638	861022	82.9	6.60	18.2	2.2	3.20	0.0000	0.00	0.000
			AVERAGE		84.0	7.43	18.1	1.8	3.17	0.0000	0.00	0.000
			STD DEVIATION		1.3	0.71	1.0	0.2	0.53	0.0000	0.00	0.000
			MINIMUM		82.2	6.60	16.2	1.7	2.70	0.0000	0.00	0.000
			MAXIMUM		85.9	8.60	19.2	2.2	4.20	0.0000	0.00	0.000
			n		6	6	6	6	6	6	6	6
207	1.0	0	51233	860528	85.7	7.85	15.8	1.8	2.80	0.0000	0.00	0.000
207	8.9	0	51234	860528	85.3	7.65	14.2	1.8	11.80	0.0000	0.00	0.000
207	1.0	0	51335	860716	83.9	6.90	19.2	1.8	3.60	0.0000	0.00	0.000
207	8.4	0	51336	860716	83.9	7.15	19.0	1.8	3.50	0.0000	0.01	0.000
207	1.0	0	54639	861022	82.0	7.25	18.0	1.9	2.90	0.0000	0.01	0.000
207	6.9	0	54640	861022	81.8	6.40	18.6	1.8	5.00	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.8	7.20	17.5	1.8	4.93	0.0000	0.00	0.000
			STD DEVIATION		1.5	0.48	1.8	0.0	3.15	0.0000	0.00	0.000
			MINIMUM		81.8	6.40	14.2	1.8	2.80	0.0000	0.00	0.000
			MAXIMUM		85.7	7.85	19.2	1.9	11.80	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
208	1.0	0	51235	860528	85.5	10.60	17.0	1.8	2.80	0.0000	0.00	0.000
208	5.4	0	51236	860528	85.1	7.45	16.6	1.8	2.80	0.0000	0.00	0.000
208	1.0	0	51337	860716	84.1	7.85	19.2	1.7	3.60	0.0000	0.01	0.000
208	5.4	0	51338	860716	83.7	7.20	19.2	1.8	3.80	0.0000	0.01	0.000
208	1.0	0	54641	861022	82.0	6.70	18.2	1.7	3.60	0.0000	0.00	0.000
208	2.9	0	54642	861022	82.0	6.45	18.0	1.7	4.00	0.0002	0.00	0.000
			AVERAGE		83.7	7.71	18.0	1.8	3.43	0.0000	0.00	0.000
			STD DEVIATION		1.4	1.37	1.0	0.1	0.47	0.0001	0.00	0.000
			MINIMUM		82.0	6.45	16.6	1.7	2.80	0.0000	0.00	0.000
			MAXIMUM		85.5	10.60	19.2	1.8	4.00	0.0002	0.01	0.000
			n		6	6	6	6	6	6	6	6
209	1.0	0	51245	860528	85.8	10.40	13.8	1.8	4.70	0.0000	0.00	0.000
209	3.4	0	51246	860528	85.6	8.70	16.4	1.9	5.90	0.0000	0.01	0.000
209	1.0	0	51347	860717	84.0	8.20	18.8	1.6	3.20	0.0000	0.02	0.000
209	4.4	0	51348	860717	83.6	7.25	19.2	1.5	4.00	0.0000	0.01	0.000
209	1.0	0	54651	861022	80.9	7.05	18.0	1.6	3.60	0.0000	0.00	0.000
209	1.9	0	54652	861022	82.1	6.65	18.0	1.6	4.10	0.0000	0.00	0.000
209	1.0	0	51287	860528	85.9	14.30	17.4	1.8	5.00	0.0000	0.00	0.000
209	3.4	0	51288	860528	85.7	8.50	11.4	1.9	5.00	0.0000	0.01	0.000
209	1.0	0	51389	860717	84.2	7.85	18.2	1.6	3.10	0.0000	0.02	0.000
209	4.4	0	51390	860717	84.3	7.20	18.4	1.7	3.40	0.0000	0.01	0.000
209	1.0	0	54693	861022	81.9	7.20	18.6	1.6	3.00	0.0000	0.00	0.000
209	1.9	0	54694	861022	81.8	7.10	18.8	1.6	5.20	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		83.8	8.37	17.3	1.7	4.20	0.0000	0.01	0.000
			STD DEVIATION		1.7	2.04	2.2	0.1	0.90	0.0000	0.01	0.000
			MINIMUM		80.9	6.65	11.4	1.5	3.00	0.0000	0.00	0.000
			MAXIMUM		85.9	14.30	19.2	1.9	5.90	0.0000	0.02	0.000
			n		12	12	12	12	12	12	12	12
210	1.0	0	51247	860528	86.4	7.65	16.4	1.9	5.80	0.0000	0.01	0.000
210	7.9	0	51248	860528	85.4	8.75	14.0	1.9	56.30	0.0000	0.00	0.000
210	1.0	0	51349	860717	83.7	6.95	19.0	1.4	3.30	0.0000	0.01	0.000
210	9.4	0	51350	860717	83.8	6.90	18.8	1.5	3.10	0.0000	0.01	0.000
210	1.0	0	54653	861022	81.8	6.40	18.0	1.8	2.80	0.0000	0.00	0.000
210	6.9	0	54654	861022	81.6	6.15	18.2	1.9	3.00	0.0000	0.00	0.000
			AVERAGE		83.8	7.13	17.4	1.7	12.38	0.0000	0.01	0.000
			STD DEVIATION		1.7	0.86	1.7	0.2	19.67	0.0000	0.01	0.000
			MINIMUM		81.6	6.15	14.0	1.4	2.80	0.0000	0.00	0.000
			MAXIMUM		86.4	8.75	19.0	1.9	56.30	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
211	1.0	0	51249	860526	85.4	8.00	17.8	1.9	5.30	0.0000	0.00	0.000
211	5.9	0	51250	860526	85.3	7.35	18.0	1.9	11.50	0.0000	0.01	0.000
211	0.0	0	51352	860715	86.4	7.40	18.8	1.6	3.30	0.0000	0.00	0.000
211	1.0	0	51351	860715	84.1	7.80	19.0	1.5	3.50	0.0000	0.01	0.000
211	1.0	0	54655	861022	81.5	6.65	18.8	1.9	3.00	0.0000	0.00	0.000
211	2.9	0	54656	861022	81.8	6.45	18.6	1.7	3.00	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKAL-INITY mg/L	CHLOR-IDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.1	7.28	18.5	1.8	4.93	0.0000	0.00	0.000
			STD DEVIATION		1.8	0.56	0.4	0.2	3.04	0.0000	0.00	0.000
			MINIMUM		81.5	6.45	17.8	1.5	3.00	0.0000	0.00	0.000
			MAXIMUM		86.4	8.00	19.0	1.9	11.50	0.0000	0.01	0.000
			n		6	6	6	6	6	6	6	6
212	1.0	0	51251	860529	85.3				11.40	0.0000	0.00	0.000
212	8.9	0	51252	860529	85.4	7.25	13.4	1.9	3.40	0.0000	0.00	0.000
212	1.0	0	51353	860717	91.4	6.75	19.0	1.6	2.80	0.0000	0.00	0.000
212	9.4	0	51354	860717	85.4	6.90	19.2	1.6	4.70	0.0000	0.00	0.000
212	1.0	0	54657	861022	81.6	6.15	18.8	1.7	3.20	0.0000	0.02	0.000
212	8.9	0	54658	861022	74.8	6.25	17.8	1.8	3.30	0.0000	0.00	0.000
			AVERAGE		84.0	6.66	17.6	1.7	4.80	0.0000	0.00	0.000
			STD DEVIATION		5.0	0.41	2.2	0.1	3.01	0.0000	0.01	0.000
			MINIMUM		74.8	6.15	13.4	1.6	2.80	0.0000	0.00	0.000
			MAXIMUM		91.4	7.25	19.2	1.9	11.40	0.0000	0.02	0.000
			n		6	5	5	5	6	6	6	6
213	1.0	67	51273	860529	86.4	6.95	18.4	1.9	3.60			
213	15.9	67	51274	860529	86.4	7.05	17.0	2.0	6.60	0.0000	0.00	0.000
213	1.0	67	51375	860717	84.3	6.60	19.0	1.8	4.90			
213	12.9	67	51376	860717	84.7	6.60	19.0	1.8	5.00	0.0000	0.00	0.000
213	1.0	67	54679	861023	81.4	7.15	18.8	1.8	4.40			
213	6.9	67	54680	861023	82.1	7.00	18.8	1.7	4.30	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.2	6.89	18.5	1.8	4.80	0.0000	0.00	0.000
			STD DEVIATION		1.9	0.21	0.7	0.1	0.93	0.0000	0.00	0.000
			MINIMUM		81.4	6.60	17.0	1.7	3.60	0.0000	0.00	0.000
			MAXIMUM		86.4	7.15	19.0	2.0	6.60	0.0000	0.00	0.000
			n		6	6	6	6	6	3	3	3
213	1.0	467	51271	860529	85.4	12.00	17.6	2.0	2.40			
213	7.9	467	51272	860529	85.7	11.70	16.8	1.8	9.00	0.0000	0.00	0.000
213	1.0	467	51373	860717	84.0	9.85	18.8	1.6	3.50			
213	6.9	467	51374	860717	84.2	9.65	18.6	2.1	4.50	0.0000	0.00	0.000
213	1.0	467	54677	861023	80.9	12.20	18.4	1.6	3.70			
213	11.9	467	54678	861023	81.0	11.30	18.8	1.7	3.10	0.0000	0.00	0.000
			AVERAGE		83.5	11.12	18.2	1.8	4.37	0.0000	0.00	0.000
			STD DEVIATION		1.9	1.01	0.7	0.2	2.17	0.0000	0.00	0.000
			MINIMUM		80.9	9.65	16.8	1.6	2.40	0.0000	0.00	0.000
			MAXIMUM		85.7	12.20	18.8	2.1	9.00	0.0000	0.00	0.000
			n		6	6	6	6	6	3	3	3
214	1.0	80	51279	860529	87.3	7.40	17.2	1.9	6.20			
214	6.9	80	51280	860529	87.4	7.45	17.2	1.9	5.20	0.0002	0.00	0.000
214	1.0	80	51381	860715	84.1	9.70	18.6	1.5	4.80			
214	2.4	80	51382	860715	84.2	9.60	18.4	1.5	6.20	0.0000	0.01	0.000
214	1.0	80	54685	861023	83.2	6.30	19.0	1.8	7.00			
214	12.9	80	54686	861023	83.4	6.65	19.0	1.8	7.90	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.9	7.85	18.2	1.7	6.22	0.0001	0.00	0.000
			STD DEVIATION		1.7	1.33	0.8	0.2	1.04	0.0001	0.00	0.000
			MINIMUM		83.2	6.30	17.2	1.5	4.80	0.0000	0.00	0.000
			MAXIMUM		87.4	9.70	19.0	1.9	7.90	0.0002	0.01	0.000
			n		6	6	6	6	6	3	3	3
214	1.0	510	51277	860529	85.5	4.95	18.8	1.6	35.50			
214	10.4	510	51278	860529	85.3	9.80	15.8	1.8	19.60	0.0002	0.01	0.000
214	1.0	510	51379	860715	84.7	6.90	19.0	1.7	7.30			
214	6.9	510	51380	860715	84.7	6.85	18.8	1.7	7.80	0.0000	0.02	0.000
214	1.0	510	54683	861023	81.4	10.10	19.0	1.7	5.20			
214	3.9	510	54684	861023	81.0	9.90	18.6	1.7	5.70	0.0000	0.00	0.000
			AVERAGE		83.8	8.08	18.3	1.7	13.52	0.0001	0.01	0.000
			STD DEVIATION		1.8	1.96	1.1	0.1	10.97	0.0001	0.01	0.000
			MINIMUM		81.0	4.95	15.8	1.6	5.20	0.0000	0.00	0.000
			MAXIMUM		85.5	10.10	19.0	1.8	35.50	0.0002	0.02	0.000
			n		6	6	6	6	6	3	3	3
216	1.0	75	51261	860529	87.6	7.50	18.6	2.0	2.20	0.0004	0.00	0.000
216	6.4	75	51262	860529	87.9	7.55	18.4	2.1	6.60	0.0006	0.01	0.000
216	1.0	75	51363	860717	85.4	6.70	19.2	1.7	5.20	0.0000	0.00	0.000
216	6.9	75	51364	860717	85.1	6.80	19.0	1.7	6.90	0.0000	0.00	0.000
216	1.0	75	54667	861022	82.9	6.45	18.6	2.3	3.40	0.0000	0.00	0.000
216	6.9	75	54668	861022	82.3	6.30	18.6	1.7	4.40	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKAL-INITY mg/L	CHLOR-IDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		85.2	6.88	18.7	1.9	4.78	0.0002	0.00	0.000
			STD DEVIATION		2.1	0.48	0.3	0.2	1.67	0.0002	0.00	0.000
			MINIMUM		82.3	6.30	18.4	1.7	2.20	0.0000	0.00	0.000
			MAXIMUM		87.9	7.55	19.2	2.3	6.90	0.0006	0.01	0.000
			n		6	6	6	6	6	6	6	6
216	1.0	500	51259	860529	85.3	6.90	18.2	2.0	2.80			
216	12.9	500	51260	860529	85.4	6.75	17.6	1.9	2.20	0.0000	0.00	0.000
216	1.0	500	51361	860717	84.2	6.10	18.8	1.7	3.90			
216	10.9	500	51362	860717	84.4	6.50	19.0	1.7	4.70	0.0000	0.00	0.000
216	1.0	500	54665	861022	81.7	6.40	18.2	1.7	3.30			
216	9.9	500	54666	861022	81.5	6.25	18.2	1.6	3.00	0.0000	0.00	0.000
			AVERAGE		83.8	6.48	18.3	1.8	3.32	0.0000	0.00	0.000
			STD DEVIATION		1.6	0.27	0.5	0.1	0.80	0.0000	0.00	0.000
			MINIMUM		81.5	6.10	17.6	1.6	2.20	0.0000	0.00	0.000
			MAXIMUM		85.4	6.90	19.0	2.0	4.70	0.0000	0.00	0.000
			n		6	6	6	6	6	3	3	3
216	1.0	570	51257	860529	85.3	34.40	17.0	1.9	2.40			
216	9.4	570	51258	860529	85.9	45.40	15.0	1.9	2.70	0.0000	0.00	0.000
216	1.0	570	51357	860714	83.9	17.60	18.6	1.6	2.80	0.0000	0.01	0.000
216	5.9	570	51358	860714	84.0	7.20	18.6	1.6	3.50	0.0000	0.01	0.000
216	1.0	570	54663	861022	82.2	67.50	18.6	1.6	2.50	0.0000	0.01	0.000
216	5.9	570	54664	861022	82.4	86.50	18.6	2.0	5.40	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.0	46.43	17.7	1.8	3.22	0.0000	0.01	0.000
			STD DEVIATION		1.4	23.79	1.4	0.2	1.04	0.0000	0.00	0.000
			MINIMUM		82.2	17.60	15.0	1.6	2.40	0.0000	0.00	0.000
			MAXIMUM		85.9	86.50	18.6	2.0	5.40	0.0000	0.01	0.000
			n		6	6	6	6	6	5	5	5
216	1.0	590	51255	860529	85.9	38.90	18.0	1.9	4.20	0.0000	0.00	0.000
216	6.4	590	51256	860529	86.0	79.50	18.4	2.0	5.70	0.0000	0.00	0.000
216	1.0	590	51359	860717	83.6	46.50	18.6	1.7	4.50	0.0000	0.02	0.000
216	3.9	590	51360	860717	83.5	47.50	18.6	2.2	5.60	0.0000	0.02	0.000
216	1.0	590	54661	861022	83.1	85.50	18.4	1.7	3.30	0.0000	0.01	0.000
216	1.9	590	54662	861022	82.5	78.00	18.6	1.7	3.10	0.0000	0.00	0.000
			AVERAGE		84.1	62.65	18.4	1.9	4.43	0.0000	0.01	0.000
			STD DEVIATION		1.4	18.69	0.2	0.2	0.97	0.0000	0.01	0.000
			MINIMUM		82.5	38.90	18.0	1.7	3.30	0.0000	0.00	0.000
			MAXIMUM		86.0	85.50	18.6	2.2	5.70	0.0000	0.02	0.000
			n		6	6	6	6	6	6	6	6
217	1.0	0	51253	860529	85.5	86.00	17.6	1.9	5.90	0.0000	0.00	0.000
217	2.9	0	51254	860529	85.4	82.00	18.8	1.9	3.40	0.0000	0.00	0.000
217	1.0	0	51355	860717	84.4	30.20	19.0	1.6	3.80	0.0000	0.01	0.000
217	5.4	0	51356	860717	84.4	26.40	18.6	1.6	4.00	0.0000	0.03	0.000
217	1.0	0	54659	861022	82.3	92.50	18.6	1.7	3.50	0.0000	0.02	0.000
217	3.9	0	54660	861022	82.5	86.50	18.8	1.7	3.40	0.0000	0.01	0.000
217	1.0	0	51290	860529	85.2	72.50	18.8	2.6	3.80	0.0000	0.00	0.000
217	2.9	0	51291	860529	85.3	105.00	16.0	1.9	3.90	0.0000	0.01	0.000
217	1.0	0	51392	860717	84.1	28.50	18.6	1.5	3.90	0.0000	0.01	0.000
217	5.4	0	51393	860717	83.5	25.40	18.4	1.4	3.80	0.0000	0.01	0.000
217	1.0	0	54696	861022	82.2	90.00	18.6	1.5	3.00	0.0000	0.00	0.000
217	3.9	0	54697	861022	81.0	99.00	18.6	1.5	3.90	0.0000	0.00	0.000

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	ALKALINITY mg/L	CHLORIDE mg/L	DISS. INORG. CAR. mg/L	DISS. ORG.CAR. mg/L	SUSP. SOL. mg/L	CADMIUM mg/L	MERCURY ug/L	LEAD mg/L
			AVERAGE		84.0	68.67	18.4	1.7	3.86	0.0000	0.01	0.000
			STD DEVIATION		1.2	30.04	0.8	0.3	0.68	0.0000	0.01	0.000
			MINIMUM		82.2	25.40	16.0	1.4	3.00	0.0000	0.00	0.000
			MAXIMUM		85.5	105.00	19.0	2.6	5.90	0.0000	0.03	0.000
			n		12	12	12	12	12	12	12	12
218	1.0	0	51269	860529	85.5	18.90	16.8	1.9	2.80			
218	9.9	0	51270	860529	85.5	14.40	17.6	1.9	2.70	0.0000	0.00	0.000
218	1.0	0	51371	860715	85.0	26.80	19.0	1.7	6.00			
218	2.9	0	51372	860715	84.3	15.80	18.6	1.6	4.90	0.0000	0.01	0.000
218	1.0	0	54675	861022	81.4	21.70	18.4	1.6	3.30			
218	4.4	0	54676	861023	81.2	21.50	18.4	1.6	8.20	0.0000	0.00	0.000
			AVERAGE		83.8	19.85	18.1	1.7	4.65	0.0000	0.00	0.000
			STD DEVIATION		1.8	4.11	0.7	0.1	1.98	0.0000	0.00	0.000
			MINIMUM		81.2	14.40	16.8	1.6	2.70	0.0000	0.00	0.000
			MAXIMUM		85.5	26.80	19.0	1.9	8.20	0.0000	0.01	0.000
			n		6	6	6	6	6	3	3	3

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
					ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
9	1.0	830	51275	860529	0	0	0	0	0	0	0	0	0
9	5.9	830	51276	860529	0	0	0	0	0	0	0	0	0
9	1.0	830	51377	860717	0	0	0	0	0	0	0	0	0
9	7.9	830	51378	860717	0	0	0	0	0	0	0	0	0
9	1.0	830	54681	861023	0	2	0	0	0	1	0	0	0
9	7.9	830	54682	861023	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.33	0.00	0.00	0.00	0.17	0.00	0.00	0.00
			STD DEVIATION		0.00	0.75	0.00	0.00	0.00	0.37	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	2.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
18	1.0	545	51267	860529	0	0	0	0	0	0	0	0	0
18	12.4	545	51268	860529	0	0	0	0	0	0	0	0	0
18	1.0	545	51369	860717	0	0	0	0	0	0	0	0	0
18	10.4	545	51370	860717	0	1	0	0	0	0	0	0	0
18	1.0	545	54673	861022	0	0	0	0	0	0	0	0	0
18	9.9	545	54674	861022	0	0	0	0	1	0	0	0	0
			AVERAGE		0.00	0.17	0.00	0.00	0.17	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	0.37	0.00	0.00	0.37	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
18	1.0	615	51265	860529	0	7	0	1	0	3	0	0	0
18	10.4	615	51266	860529	0	8	0	1	5	5	0	0	0
18	1.0	615	51367	860717	0	4	3	3	1	0	0	0	0
18	7.9	615	51368	860717	0	2	2	3	2	0	4	0	0
18	1.0	615	54671	861022	0	0	1	0	1	0	0	0	0
18	4.9	615	54672	861022	0	0	1	0	0	1	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	3.50	1.17	1.33	1.50	1.50	0.67	0.00	0.00
			STD DEVIATION		0.00	3.15	1.07	1.25	1.71	1.89	1.49	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	8.00	3.00	3.00	5.00	5.00	4.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
18	1.0	635	51263	860529	0	6	0	2	0	10	0	0	0
18	5.9	635	51264	860529	0	9	0	2	0	10	0	0	0
18	1.0	635	51365	860714	0	18	0	0	2	0	0	0	0
18	5.9	635	51366	860714	0	2	2	3	2	0	0	0	0
18	1.0	635	54669	861022	0	0	1	0	1	0	0	0	0
18	2.9	635	54670	861022	0	4	1	0	1	5	0	0	0
			AVERAGE		0.00	6.50	0.67	1.17	1.00	4.17	0.00	0.00	0.00
			STD DEVIATION		0.00	5.88	0.75	1.21	0.82	4.49	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	18.00	2.00	3.00	2.00	10.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
20	1.0	470	51225	860528			0	0					
20	12.0	470	51226	860528			0	1					
20	1.0	470	51327	860716	0	4	0	0	0	0	0	0	0
20	9.9	470	51328	860716	0	55	0	0	16	2	4	2	0
20	1.0	470	54631	861021			0	0					
20	8.9	470	54632	861021	0	2	0	0	2	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	20.33	0.00	0.17	6.00	0.67	1.33	0.67	0.00
			STD DEVIATION		0.00	24.53	0.00	0.37	7.12	0.94	1.89	0.94	0.00
			MINIMUM		0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	55.00	0.00	1.00	16.00	2.00	4.00	2.00	0.00
			n		3	3	6	6	3	3	3	3	3
20	1.0	540	51223	860528			0	0					
20	7.0	540	51224	860528			42	44					
20	1.0	540	51325	860716	0	4	0	0	0	0	0	0	0
20	6.4	540	51326	860716			8	22					
20	1.0	540	54629	861021			0	0					
20	6.9	540	54630	861021	0	13	0	0	5	2	0	0	0
			AVERAGE		0.00	8.50	8.33	11.00	2.50	1.00	0.00	0.00	0.00
			STD DEVIATION		0.00	4.50	15.34	16.80	2.50	1.00	0.00	0.00	0.00
			MINIMUM		0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	13.00	42.00	44.00	5.00	2.00	0.00	0.00	0.00
			n		2	2	6	6	2	2	2	2	2
20	1.0	550	51221	860527			0	3					
20	1.0	550	51285	860527	0	8	4	10	1	9	0	0	0
20	3.4	550	51222	860527			0	0					
20	3.4	550	51286	860527	0	11	0	1	0	0	0	0	[illegible]
20	1.0	550	51323	860716	0	28	4	6	23	12	5	3	[illegible]
20	1.0	550	51387	860716	0	18	4	6	34	0	8	3	[illegible]
20	3.9	550	51324	860716	0	6	0	1	40	0	8	1	[illegible]
20	3.9	550	51388	860716	0	51	0	1	88	0	5	5	[illegible]
20	1.0	550	54691	861021	0	22	12	8	21	123	0	0	[illegible]
20	1.0	550	54627	861021	0	0		8	0	0	0	0	[illegible]
20	2.9	550	54692	861021	0	51	2	4	117	6	0	9	[illegible]
20	2.9	550	54628	861021	0	30	3	3	17	37	0	1	5.2

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	22.50	2.64	4.25	34.10	18.70	2.60	2.40	5.20
			STD DEVIATION		0.00	16.89	3.42	3.17	37.18	36.42	3.32	2.76	15.60
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	51.00	12.00	10.00	117.00	123.00	8.00	9.00	52.00
			n		10	10	11	12	10	10	10	10	10
22	1.0	475	51211	860527	0	0	0	0	0	0	0	0	0
22	12.4	475	51212	860527	0	2	0	0	0	8	0	0	0
22	1.0	475	51311	860716	0	0	0	0	0	0	0	0	0
22	10.9	475	51312	860716	0	0	0	0	0	0	0	0	0
22	1.0	475	54615	861020	0	0	0	0	0	0	0	0	0
22	10.9	475	54616	861020	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.33	0.00	0.00	0.00	1.33	0.00	0.00	0.00
			STD DEVIATION		0.00	0.75	0.00	0.00	0.00	2.98	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	2.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
22	1.0	545	51209	860527	0	0	0	0	0	0	0	0	0
22	3.4	545	51210	860527	0	3	0	0	0	0	0	0	0
22	1.0	545	51309	860716	0	0	0	0	0	0	0	0	0
22	3.9	545	51310	860716	0	0	0	0	0	0	0	0	0
22	1.0	545	54613	861020	0	0	0	0	0	0	0	0	0
22	3.9	545	54614	861020	0	0	0	0	0	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
			AVERAGE		0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
25	1.0	60	51199	860526	0	0	0	0	0	0	0	0	0
25	11.9	60	51200	860526	0	0	0	0	0	4	0	0	0
25	1.0	60	51299	860715	0	0	0	0	0	0	0	0	0
25	2.0	60	51300	860715	0	0	0	0	0	0	0	0	0
25	1.0	60	54601	861020	0	0	0	0	0	0	0	0	0
25	4.4	60	54604	861020	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
116	1.0	570	51219	860527	0	0	0	0	0	0	0	0	0
116	11.4	570	51220	860527			0	0					
116	1.0	570	51321	860716	0	9	0	0	0	0	0	0	0
116	9.9	570	51322	860716	0	8	0	0	2	0	0	0	0
116	1.0	570	54625	861021	0	0	0	0	0	0	0	0	0
116	9.9	570	54626	861021	0	2	0	0	0	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	3.80	0.00	0.00	0.40	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	3.92	0.00	0.00	0.80	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	9.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
			n		5	5	6	6	5	5	5	5	5
116	1.0	590	51217	860527			0	0					
116	5.9	590	51218	860527			0	0					
116	1.0	590	51319	860716	0	9	0	0	0	0	0	0	0
116	3.9	590	51320	860716	0	8	0	0	2	0	0	0	0
116	1.0	590	54623	861021	0	0	0	0	0	0	0	0	0
116	4.9	590	54624	861021	0	5	0	0	0	0	0	0	0
			AVERAGE		0.00	5.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	3.50	0.00	0.00	0.87	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	9.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
			n		4	4	6	6	4	4	4	4	4
119	1.0	375	51213	860527	0	0	0	0	0	0	0	0	0
119	6.9	375	51214	860527	0	87	0	0	5	169	0	2	10
119	1.0	375	51315	860716	0	0	0	0	0	0	0	0	0
119	8.4	375	51316	860716	0	53	0	0	23	0	17	5	0
119	1.0	375	54619	861021	0	0	0	0	0	0	0	0	0
119	5.9	375	54620	861021	0	116	0	0	19	1	0	10	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	42.67	0.00	0.00	7.83	28.33	2.83	2.83	1.67
			STD DEVIATION		0.00	46.39	0.00	0.00	9.55	62.91	6.34	3.67	3.73
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	116.00	0.00	0.00	23.00	169.00	17.00	10.00	10.00
			n		6	6	6	6	6	6	6	6	6
119	1.0	475	51293	860527	0	0	0	0	0	0	0	0	0
119	11.9	475	51294	860527	0	0	0	0	0	0	0	0	0
119	1.0	475	51317	860716	0	0	0	0	0	0	0	0	0
119	9.9	475	51318	860716	0	0	0	0	0	0	0	0	0
119	1.0	475	54621	861021	0	0	0	0	0	0	0	0	0
119	9.9	475	54622	861021	0	2	0	0	1	0	0	0	0
			AVERAGE		0.00	0.33	0.00	0.00	0.17	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	0.75	0.00	0.00	0.37	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	2.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
132	1.0	0	51201	860526	0	0	0	0	0	0	0	0	0
132	8.9	0	51202	860526	0	0	0	0	0	0	0	0	0
132	1.0	0	51301	860714	0	0	0	0	0	0	0	0	0
132	9.9	0	51302	860714	0	0	0	0	0	0	0	0	0
132	1.0	0	54605	861020	0	0	0	0	0	0	0	0	0
132	11.9	0	54606	861020	0	0	0	0	0	1	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
133	1.0	0	51203	860526	0	0	0	0	0	0	0	0	0
133	11.9	0	51204	860526	0	3	0	0	0	5	0	0	0
133	1.0	0	51303	860716	0	0	0	0	0	0	0	0	0
133	9.9	0	51304	860716	0	0	0	0	0	0	0	0	0
133	1.0	0	54607	861020	0	0	0	0	0	3	0	0	0
133	9.9	0	54608	861020	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.50	0.00	0.00	0.00	1.33	0.00	0.00	0.00
			STD DEVIATION		0.00	1.12	0.00	0.00	0.00	1.97	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	3.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
201	1.0	125	51243	860528	0	0	0	0	0	2	0	0	0
201	8.9	125	51244	860528	0	0	0	0	0	0	0	0	0
201	1.0	125	51345	860717	0	0	0	0	0	0	0	0	0
201	7.4	125	51346	860717	0	0	0	0	0	0	0	0	0
201	1.0	125	54649	861022	0	0	0	0	0	0	0	0	0
201	6.9	125	54650	861022	0	0	0	0	1	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.17	0.33	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.37	0.75	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
201	1.0	560	51241	860528	0	0	0	0	0	0	0	0	0
201	11.9	560	51242	860528	0	60	0	0	0	3	0	5	0
201	10.9	560	51344	860710	0	0	0	0	0	0	0	0	0
201	1.0	560	51343	860717	0	0	0	0	0	0	0	0	0
201	1.0	560	54647	861022	0	3	0	0	0	1	0	0	0
201	8.0	560	54648	861022	0	1	0	0	1	0	0	0	0
			AVERAGE		0.00	10.67	0.00	0.00	0.17	0.67	0.00	0.83	0.00
			STD DEVIATION		0.00	22.09	0.00	0.00	0.37	1.11	0.00	1.86	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	60.00	0.00	0.00	1.00	3.00	0.00	5.00	0.00
			n		6	6	6	6	6	6	6	6	6
201	1.0	630	51239	860528	0	20	0	0	4	20	0	0	0
201	8.4	630	51240	860528	0	27	0	1	6	8	0	2	0
201	1.0	630	51341	860717	0	7	1	1	4	0	0	0	0
201	7.9	630	51342	860717	0	6	0	0	1	0	0	0	0
201	1.0	630	54645	861022	0	5	1	0	0	7	0	0	0
201	6.9	630	54646	861022	0	0	0	0	2	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
			AVERAGE		0.00	10.83	0.33	0.33	2.83	5.83	0.00	0.33	0.00
			STD DEVIATION		0.00	9.44	0.47	0.47	2.03	7.17	0.00	0.75	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	27.00	1.00	1.00	6.00	20.00	0.00	2.00	0.00
			n		6	6	6	6	6	6	6	6	6
201	1.0	650	51237	860528	0	12	0	2	0	20	0	0	0
201	5.4	650	51238	860528	0	0	0	0	0	8	0	0	0
201	1.0	650	51339	860717	0	2	6	26	210	0	11	1	0
201	3.9	650	51340	860717	0	29	3	6	22	0	2	0	0
201	1.0	650	54643	861022	0	12	2	1	4	12	0	0	0
201	3.4	650	54644	861022	0	11	0	0	36	6	0	0	0
			AVERAGE		0.00	11.00	1.83	5.83	45.33	7.67	2.17	0.17	0.00
			STD DEVIATION		0.00	9.38	2.19	9.25	74.79	6.97	4.02	0.37	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	29.00	6.00	26.00	210.00	20.00	11.00	1.00	0.00
			n		6	6	6	6	6	6	6	6	6
202	1.0	75	51205	860527	0	0	0	0	0	0	0	0	6
202	7.9	75	51206	860527	0	0	0	0	0	0	0	0	0
202	1.0	75	51305	860716	0	0	0	0	0	0	0	0	0
202	9.9	75	51306	860716	0	0	0	0	0	0	0	0	0
202	1.0	75	54611	861020	0	0	0	0	0	0	0	0	0
202	9.9	75	54612	861020			0	0					

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
					ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
			n		5	5	6	6	5	5	5	5	5
202	1.0	460	51208	860526	0	0	0	0	0	0	0	0	0
202	6.4	460	51207	860526	0	0	0	0	0	4	0	0	0
202	1.0	460	51308	860716	0	0	0	0	0	0	0	0	0
202	8.9	460	51307	860716	0	0	0	0	0	0	0	0	0
202	1.0	460	54609	861020	0	0	0	0	0	0	0	0	0
202	11.9	460	54610	861020	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
203	1.0	0	51215	860527	0	0	0	0	0	0	0	0	0
203	1.0	0	51281	860527	0	0	0	0	0	4	0	0	0
203	9.9	0	51216	860527	0	5	0	0	7	0	0	0	0
203	9.9	0	51282	860527	0	1	0	0	0	0	0	0	0
203	1.0	0	51313	860714	0	0	0	0	0	0	0	0	0
203	1.0	0	51383	860714	0	0	0	0	0	0	0	0	0
203	6.0	0	51395	860714	0	15	0	0	2	0	1	2	0
203	12.0	0	51314	860714	0	36	0	0	4	0	4	7	0
203	12.0	0	51384	860714	0	2	0	0	5	0	0	4	0
203	1.0	0	54617	861021	0	0	0	0	0	0	0	0	0
203	1.0	0	54687	861021	0	0	0	0	0	0	0	0	0
203	4.0	0	54699	861021	0	0	0	6	2	0	2	1	0
203	8.0	0	54618	861021	0	11	0	5	4	0	0	3	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
203	8.0	0	54688	861021	0	116	0	15	4	8	0	5	33
			AVERAGE		0.00	15.57	0.00	1.86	2.00	0.86	0.50	1.57	2.36
			STD DEVIATION		0.00	31.01	0.00	4.12	2.30	2.23	1.12	2.23	8.50
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	116.00	0.00	15.00	7.00	8.00	4.00	7.00	33.00
			n		14	14	14	14	14	14	14	14	14
204	1.0	0	51227	860528	0	44	0	4	12	50	0	0	10
204	3.5	0	51228	860528	0	44	0	2	12	49	0	0	10
204	1.0	0	51329	860716	0	0	3	4	3	0	0	0	0
204	2.4	0	51330	860716	0	12	2	3	35	0	0	0	0
204	1.0	0	54633	861022	0	10		4	7	0	0	0	86
204	2.4	0	54634	861022	0	5	0	0	2	1	0	0	74
			AVERAGE		0.00	19.17	1.00	2.83	11.83	16.67	0.00	0.00	30.00
			STD DEVIATION		0.00	17.97	1.26	1.46	11.07	23.22	0.00	0.00	35.76
			MINIMUM		0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	44.00	3.00	4.00	35.00	50.00	0.00	0.00	86.00
			n		6	6	5	6	6	6	6	6	6
205	1.0	0	51229	860528	0	7	0	0	0	12	0	2	10
205	8.4	0	51230	860528	0	27	0	0	3	0	0	0	0
205	1.0	0	51331	860716	0	3	1	1	1	0	0	0	0
205	6.9	0	51332	860716	0	12	3	3	24	0	4	1	0
205	1.0	0	54635	861022	0	9	2	1	7	0	5	0	0
205	5.9	0	54636	861022	0	12	1	1	8	1	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	11.67	1.17	1.00	7.17	2.17	1.50	0.50	1.67
			STD DEVIATION		0.00	7.52	1.07	1.00	8.07	4.41	2.14	0.76	3.73
			MINIMUM		0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	27.00	3.00	3.00	24.00	12.00	5.00	2.00	10.00
			n		6	6	6	6	6	6	6	6	6
206	1.0	0	51231	860528	0	0	1	3	0	0	0	0	0
206	4.4	0	51232	860528	0	11	0	2	4	11	0	0	0
206	1.0	0	51333	860715	0	3	2	1	1	0	0	0	0
206	6.9	0	51334	860715	0	3	1	1	1	0	0	0	0
206	1.0	0	54637	861022	0	4	3	2	1	0	0	0	25
206	1.9	0	54638	861022	0	2	0	0	0	0	0	0	0
			AVERAGE		0.00	3.83	1.17	1.50	1.17	1.83	0.00	0.00	4.17
			STD DEVIATION		0.00	3.44	1.07	0.96	1.34	4.10	0.00	0.00	9.32
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	11.00	3.00	3.00	4.00	11.00	0.00	0.00	25.00
			n		6	6	6	6	6	6	6	6	6
207	1.0	0	51233	860528	0	4	0	1	0	7	0	0	0
207	8.9	0	51234	860528	0	57	0	0	75	7	0	5	0
207	1.0	0	51335	860716	0	1	2	1	0	0	0	0	0
207	8.4	0	51336	860716	0	9	0	0	1	0	0	0	0
207	1.0	0	54639	861022	0	0	2	0	1	0	0	0	0
207	6.9	0	54640	861022	0	6	0	0	4	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
			AVERAGE		0.00	12.83	0.67	0.33	13.50	2.33	0.00	0.83	0.00
			STD DEVIATION		0.00	19.98	0.94	0.47	27.54	3.30	0.00	1.86	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	57.00	2.00	1.00	75.00	7.00	0.00	5.00	0.00
			n		6	6	6	6	6	6	6	6	6
208	1.0	0	51235	860528	0	3	0	2	4	0	0	0	0
208	5.4	0	51236	860528	0	11	0	1	10	10	0	1	0
208	1.0	0	51337	860716	0	0	3	4	4	0	0	0	0
208	5.4	0	51338	860716	0	19	3	6	3	0	2	0	0
208	1.0	0	54641	861022	0	6	2	0	1	2	0	0	0
208	2.9	0	54642	861022	0	4	1	0	2	0	0	0	0
			AVERAGE		0.00	7.17	1.50	2.17	4.00	2.00	0.33	0.17	0.00
			STD DEVIATION		0.00	6.26	1.26	2.19	2.89	3.65	0.75	0.37	0.00
			MINIMUM		0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	19.00	3.00	6.00	10.00	10.00	2.00	1.00	0.00
			n		6	6	6	6	6	6	6	6	6
209	1.0	0	51245	860528	0	0	0	3	3	0	0	0	0
209	1.0	0	51287	860528	0	10	3	7	6	13	0	0	0
209	3.4	0	51246	860528	0	22	0	1	12	16	0	1	0
209	3.4	0	51288	860528	0	45	0	1	5	2	0	1	0
209	1.0	0	51347	860717	0	0	6	11	5	0	0	0	0
209	1.0	0	51389	860717	0	9	4	8	36	0	20	13	0
209	4.4	0	51348	860717	0	3	4	7	5	0	0	0	0
209	4.4	0	51390	860717	0	0	3	4	2	0	1	0	0
209	1.0	0	54651	861022	0	6	1	1	2	3	0	0	0
209	1.0	0	54693	861022	0	2	1	1	3	0	2	0	0
209	1.9	0	54652	861022	0	20	0	0	4	9	0	0	0
209	1.9	0	54694	861022	0	0	0	0	8	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
					ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	9.75	1.83	3.67	7.58	3.58	1.92	1.25	0.00
			STD DEVIATION		0.00	12.90	1.99	3.54	8.98	5.51	5.48	3.56	0.00
			MINIMUM		0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	45.00	6.00	11.00	36.00	16.00	20.00	13.00	0.00
			n		12	12	12	12	12	12	12	12	12
210	1.0	0	51247	860528	0	0	0	0	0	0	0	0	0
210	7.9	0	51248	860528	0	4	0	1	3	0	0	0	0
210	1.0	0	51349	860717	0	3	3	2	1	0	0	0	0
210	9.4	0	51350	860717	0	0	2	2	1	0	0	0	0
210	1.0	0	54653	861022	0	8	0	0	1	6	0	0	0
210	6.9	0	54654	861022	0	0	0	0	1	0	0	0	0
			AVERAGE		0.00	2.50	0.83	0.83	1.17	1.00	0.00	0.00	0.00
			STD DEVIATION		0.00	2.93	1.21	0.90	0.90	2.24	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	8.00	3.00	2.00	3.00	6.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
211	1.0	0	51249	860526	0	3	0	2	7	1	0	0	0
211	5.9	0	51250	860526	0	0	0	1	2	2	0	0	0
211	0.0	0	51352	860715	0	0	1	1	2	0	0	0	0
211	1.0	0	51351	860715	0	4	2	2	2	0	0	0	0
211	1.0	0	54655	861022	0	9	1	0	2	9	0	0	0
211	2.9	0	54656	861022	0	0	1	0	6	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	2.67	0.83	1.00	3.50	2.00	0.00	0.00	0.00
			STD DEVIATION		0.00	3.25	0.69	0.82	2.14	3.21	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	9.00	2.00	2.00	7.00	9.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
212	1.0	0	51251	860529	0	2	0	0	0	3	0	11	0
212	8.9	0	51252	860529	0	7	0	0	2	8	0	0	0
212	1.0	0	51353	860717	0	0	1	1	1	0	0	0	0
212	9.4	0	51354	860717	0	0	1	1	0	0	0	0	0
212	1.0	0	54657	861022	0	0	0	0	0	0	0	0	0
212	8.9	0	54658	861022	0	0	0	0	1	0	0	0	0
			AVERAGE		0.00	1.50	0.33	0.33	0.67	1.83	0.00	1.83	0.00
			STD DEVIATION		0.00	2.57	0.47	0.47	0.75	2.97	0.00	4.10	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	7.00	1.00	1.00	2.00	8.00	0.00	11.00	0.00
			n		6	6	6	6	6	6	6	6	6
213	1.0	67	51273	860529	0	0	0	0	0	0	0	0	0
213	15.9	67	51274	860529	0	0	0	0	0	0	0	0	0
213	1.0	67	51375	860717	0	0	0	0	0	0	0	0	0
213	12.9	67	51376	860717	0	0	0	0	0	0	0	0	0
213	1.0	67	54679	861023	0	0	0	0	0	5	0	0	0
213	6.9	67	54680	861023	0	0	0	0	0	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
213	1.0	467	51271	860529	0	0	0	0	0	0	0	0	0
213	7.9	467	51272	860529	0	0	0	0	0	2	0	0	0
213	1.0	467	51373	860717	0	2	1	1	0	0	0	0	0
213	6.9	467	51374	860717	0	3	1	1	3	0	0	0	0
213	1.0	467	54677	861023	0	0	0	0	0	0	0	0	0
213	11.9	467	54678	861023	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.83	0.33	0.33	0.83	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	1.21	0.47	0.47	1.21	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	3.00	1.00	1.00	3.00	0.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
214	1.0	80	51279	860529	0	0	0	0	0	0	0	0	0
214	6.9	80	51280	860529	0	0	0	0	0	3	0	0	0
214	1.0	80	51381	860715	0	0	0	0	0	0	0	0	0
214	2.4	80	51382	860715	0	0	0	0	0	0	0	0	0
214	1.0	80	54685	861023	0	0	0	0	0	3	0	0	0
214	12.9	80	54686	861023	0	0	0	0	1	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.17	1.00	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.37	1.41	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	1.00	3.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
214	1.0	510	51277	860529	0	0	0	0	0	0	0	0	0
214	10.4	510	51278	860529	0	1	0	0	0	0	0	0	0
214	1.0	510	51379	860715	0	0	0	0	0	0	0	0	0
214	6.9	510	51380	860715	0	0	0	0	0	0	0	0	0
214	0.0	510	54683	861023	0	0	0	0	0	0	0	0	0
214	3.9	510	54684	861023	0	0	0	0	0	0	0	0	0
			AVERAGE		0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			STD DEVIATION		0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
216	1.0	75	51261	860529	0	0	0	0	0	0	0	0	0
216	6.4	75	51262	860529	0	0	0	0	0	6	0	0	0
216	1.0	75	51363	860717	0	0	0	0	0	0	0	0	0
216	6.9	75	51364	860717	0	0	0	0	0	0	0	0	0
216	1.0	75	54667	861022	0	0	0	0	0	0	0	0	0
216	6.9	75	54668	861022	0	0	0	0	0	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD	CCL4	PERC	HCB	HCE	OCS	QCB	2,4,5-TCT
						ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
			AVERAGE		0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
			STD DEVIATION		0.00	0.00	0.00	0.00	0.00	2.24	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
216	1.0	500	51259	860529	0	0	0	0	0	0	0	0	0
216	12.9	500	51260	860529	0	0	0	0	0	2	0	0	0
216	1.0	500	51361	860717	0	0	3	11	0	0	0	0	0
216	10.9	500	51362	860717	0	0	0	0	0	0	0	0	0
216	1.0	500	54665	861022	0	0	0	0	0	0	0	0	0
216	9.9	500	54666	861022	0	1	0	0	1	0	0	0	0
			AVERAGE		0.00	0.17	0.50	1.83	0.17	0.33	0.00	0.00	0.00
			STD DEVIATION		0.00	0.37	1.12	4.10	0.37	0.75	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	1.00	3.00	11.00	1.00	2.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
216	1.0	570	51257	860529	0	11	0	2	0	10	0	0	0
216	9.4	570	51258	860529	0	0	0	3	0	0	0	0	0
216	1.0	570	51357	860714	0	0	2	1	0	0	0	0	0
216	5.9	570	51358	860714	0	0	1	1	1	0	0	0	0
216	1.0	570	54663	861022	0	0	2	0	0	0	0	0	0
216	5.9	570	54664	861022	0	0	2	0	1	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
			AVERAGE		0.00	1.83	1.17	1.17	0.33	1.67	0.00	0.00	0.00
			STD DEVIATION		0.00	4.10	0.90	1.07	0.47	3.73	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	11.00	2.00	3.00	1.00	10.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
216	1.0	590	51255	860529	0	10	0	3	0	19	0	0	0
216	6.4	590	51256	860529	0	7	0	3	10	14	0	0	0
216	1.0	590	51359	860717	0	0	1	1	0	0	0	0	0
216	3.9	590	51360	860717	0	0	3	17	8	0	0	0	0
216	1.0	590	54661	861022	0	0	2	2	1	0	0	0	0
216	1.9	590	54662	861022	0	0	1	1	1	0	0	0	0
			AVERAGE		0.00	2.83	1.17	4.50	3.33	5.50	0.00	0.00	0.00
			STD DEVIATION		0.00	4.10	1.07	5.65	4.07	7.91	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	10.00	3.00	17.00	10.00	19.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6
217	1.0	0	51253	860529	0	4	0	4	0	12	0	0	0
217	1.0	0	51290	860529	0	12	5	4	0	8	0	0	0
217	2.9	0	51254	860529	0	8	0	3	0	9	0	0	0
217	2.9	0	51291	860529	0	0	5	4	0	7	0	0	0
217	1.0	0	51355	860717	0	16	5	8	3	0	2	0	0
217	1.0	0	51392	860717	0	2	6	13	6	0	0	0	0
217	5.4	0	51356	860717	0	25	3	10	9	0	1	0	0
217	5.4	0	51393	860717	0	11	7	15	15	0	2	0	0
217	1.0	0	54659	861022	0	2	1	0	5	2	0	0	0
217	1.0	0	54696	861022	0	2	0	0	1	0	0	0	0
217	3.9	0	54660	861022	0	1	1	0	3	0	0	0	0
217	3.9	0	54697	861022	0	5	0	1	3	0	0	0	0

APPENDIX 5: INVESTIGATIVE AMBIENT RIVER SAMPLING

SN#	DEPTH (m)	DISTANCE from U.S. shore (m)	SAMPLE#	DATE	TOTAL PCB's	HCBD ng/L	CCL4 ng/L	PERC ng/L	HCB ng/L	HCE ng/L	OCS ng/L	QCB ng/L	2,4,5-TCT ng/L
			AVERAGE		0.00	7.33	2.75	5.17	3.75	3.17	0.42	0.00	0.00
			STD DEVIATION		0.00	7.18	2.59	4.96	4.34	4.30	0.76	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	25.00	7.00	15.00	15.00	12.00	2.00	0.00	0.00
			n		12	12	12	12	12	12	12	12	12
218	1.0	0	51269	860529	0	0	0	0	0	0	0	0	0
218	9.9	0	51270	860529	0	6	0	0	0	3	0	0	0
218	1.0	0	51371	860715	0	2	1	1	1	0	0	0	0
218	2.9	0	51372	860715	0	3	2	1	2	0	0	0	0
218	1.0	0	54675	861022	0	5	0	0	1	2	0	0	0
218	4.4	0	54676	861023	0	1	0	0	0	0	0	0	0
			AVERAGE		0.00	2.83	0.50	0.33	0.67	0.83	0.00	0.00	0.00
			STD DEVIATION		0.00	2.11	0.76	0.47	0.75	1.21	0.00	0.00	0.00
			MINIMUM		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			MAXIMUM		0.00	6.00	2.00	1.00	2.00	3.00	0.00	0.00	0.00
			n		6	6	6	6	6	6	6	6	6

APPENDIX 6a

CLAM TISSUE PREPARATION FOR VOLATILES ANALYSIS

APPENDIX 6a

CLAM TISSUE PREPARATION FOR VOLATILES ANALYSIS

Experimental Protocol

A portion of the clams in this study were to be analysed at the Ministry's Rexdale laboratory for volatile organic compounds using mass spectroscopy. For this purpose clams were prepared for analysis using a procedure which would minimize losses of volatile compounds. This method was developed in co-operation with the consultant Integrated Explorations. A brief summary of the method employed follows:

1) Clam tissue is dropped into liquid nitrogen
2) Clam tissue boils in liquid nitrogen
3) Tissue is frozen after boiling has ceased
4) Whole tissue is placed in frozen mortar with pestal
5) Tissue is pulverized in mortar with pestal and hammer
6) Liquid nitrogen bath is used to pre-freeze utensils
7) Pre-frozen vial is removed from nitrogen bath
8) Pulverized clam tissue is emptied into frozen funnel
9) Tissue is further pulverized as it is forced through funnel
10) Filled vial is capped while still frozen
11) Vial is placed in 'Whirl-Pak' bag to be stored in freezer

Each clam was shucked and the tissue dropped into a clean beaker of liquid nitrogen. The frozen clam was then placed in a stainless steel mortar and covered with a pestle. The pestle was hammered, pulverizing the clam. Since either face of the pestle could be used as the grinding face, it is important to protect the pestle from being scratched by the hammer blows. A piece of aluminum (6 mm thick) was placed on top of the pestle during hammering for this purpose. The clam tissue shattered readily, but the clam powder tended to compact on hammering. A small stainless steel spatula was used to disaggregate the powder. The clam

powder was put into a vial with the help of a funnel and the spatula. The mortar, pestle, spatula, funnel and vial were all cooled in liquid nitrogen prior to use. The vial was capped, placed in a labelled Whirl-pak bag and immediately put into a freezer.

Each set of beaker, mortar, pestle, funnel and spatula was used for only one clam and then set aside for washing. In order to work to proceed rapidly, several (usually six) such sets were washed at one time. They were washed in warm, soapy water and rinsed in distilled water. All the clean funnels, spatulas and vials were placed in a bucket of liquid nitrogen, from where they were removed as needed. Another thermal bucket of liquid nitrogen was used to cool one mortar and one pestle at a time. The liquid nitrogen in both buckets thus remained clean at all times.

APPENDIX 6b

RESULTS OF CLAM TISSUE CONTAMINANT ANALYSIS FOR SELECTED PARAMETERS

APPENDIX 6b: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
				MINIMUM			7.00	13.00	0.00		0.00	0.00		0.00
				MAXIMUM			46.00	32.00	0.00		2.00	0.00		0.00
				MEAN			21.00	20.67	0.00		1.33	0.00		0.00
				STD. DEVIATION			17.72	8.18	0.00		0.94	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	218	0	54719	861026	6	15	10	4	0	16	1	0		0
15	218	0	54720	861026	6	15	12	4	0	24	1	0		0
15	218	0	54721	861026	6	15	11	5	0	25	2	0		0
				MINIMUM			10.00	4.00	0.00	16.00	1.00	0.00		0.00
				MAXIMUM			12.00	5.00	0.00	25.00	2.00	0.00		0.00
				MEAN			11.00	4.33	0.00	21.67	1.33	0.00		0.00
				STD. DEVIATION			0.82	0.47	0.00	4.03	0.47	0.00		0.00
				n			3	3	3	3	3	3	0	3

SUMMARY OF VOLATILE RESINS FROM THE 1986 ST. CLAIR RIVER CLAMS

PARAMETER	Field Sample # / Station #	52024 132 (W Tunnel)	52025 132 (W Tunnel)	52028 206 1st St.	52029 206 1st St.	52034 216 4th St.	52035 216 4th St.	52039 18 Suncor Dock	52041 18 Suncor Dock	54713 214 SR 12.9	54716 18 SR 33.4	54717 18 SR 33.4	54718 18 SR 33.4	54719 218 SR 31.1	54720 218 SR 31.1
	Dist From CDN Shore	d/s 30M	d/s 30M	d/s 20M	d/s 20M	d/s 30M	d/s 30M	10M	10M	120M	20M	20M	20M	10M	10M
	Depth	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
	Exposure Period	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	19 weeks	15 weeks	15 weeks	15 weeks	15 weeks	15 weeks
1,1,1 Trichloroethane		ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene		5.1	14	3.5	22	14	8.4	8.4	ND	10	12	11	9.3	16	10
Bromoform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbontetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		2.6	15	3.6	ND	8.3	4.9	6.7	ND	7.8	10	11	5.3	2.8	8.2
Dichlorobromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		160	96	43	23	9	58	21	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene		ND	ND	40	37	24	36	135	ND	ND	ND	6.1	ND	ND	ND
I.S 1,3 Dichlorobutane		TR	TR	TR	TR	TR	TR	TR	ND	TR	TR	TR	TR	TR	TR
I.S Bromochloromethane		TR	TR	TR	TR	TR	TR	TR	ND	TR	TR	TR	TR	TR	TR
m,o or p Xylene		220	170	110	60	ND	110	59	ND	48	64	56	3.7	44	40
Tetrachloroethylene		ND	ND	ND	11	29	4.2	12	ND	ND	3.9	4.3	4.4	ND	ND
Toluene		280	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorethylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Legend
ND Compound Not Detected
TR Trace Amounts

APPENDIX 6b. CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBs ng/g
15	1	0	52060	860611	2	0	0	0	0	0	0		
15	1	0	52061	860611	2	0	0	0	0	0	0		
15	1	0	52062	860611	2	0	0	0	0	0	0		
15	1	0	52063	860611	2	0	0	0	0	0	0		
15	1	0	52064	860611	2	0	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			5	5	5	5	5	0	0
15	18	635	52039	860714	7	4	0	0	0	0	0		
15	18	635	52040	860714	7	4	0	0	0	0	0		
15	18	635	52041	860714	7	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	18	635	54725	861026	4	15	0	0	0	0	0		67
15	18	635	54726	861026	4	15	0	0	0	0	0		20
15	18	635	54727	861026	4	15	0	0	0	0	0		0

BODY OF WATER	SWB	DISTANCE from ref pt (m)	FOR	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,5,A ng/g	TOTAL PCBs ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		0.00
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		67.00
				MEAN			0.00	0.00	0.00	0.00	0.00		29.00
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		28.08
				n			3	3	3	3	3	0	1
15	18	635	54716	861026	7	15	0	0	0	0	0		33
15	18	635	54717	861026	7	15	0	0	0	0	0		29
15	18	635	54718	861026	7	15	0	0	0	0	0		32
				MINIMUM			0.00	0.00	0.00	0.00	0.00		29.00
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		33.00
				MEAN			0.00	0.00	0.00	0.00	0.00		31.33
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		1.76
				n			3	3	3	3	3	0	3
15	132	0	52021	860714	7	4	0	0	0	0	0		
15	132	0	52022	860714	7	4	0	0	0	0	0		
15	132	0	52023	860714	7	4	0	0	0	0	0		

APPENDIX 6b CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE from ref. pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBs ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	132	0	52024	860714	10.9	4	0	0	0	0	0		
15	132	0	52025	860714	10.9	4	0	0	0	0	0		
15	132	0	52026	860714	10.9	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	206	0	52030	860715	4	4	0	0	0	0	0		
15	206	0	52031	860715	4	4	0	0	0	0	0		
15	206	0	52032	860715	4	4	0	0	0	0	0		

APPENDIX 6b CLEAMS AMBIENT DATA PARAMETER REPORT

BASIN OR WATER	TN#	DISTANCE from ref pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBs ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	206	0	52027	860715	7.9	4	0	0	0	0	0		
15	206	0	52028	860715	7.9	4	0	0	0	0	0		
15	206	0	52029	860715	7.9	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	211	0	52045	860715	4	4	0	0	0	0	0		
15	211	0	52046	860715	4	4	0	0	0	0	0		
15	211	0	52047	860715	4	4	0	0	0	0	0		

APPENDIX 6D: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SM#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBs ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	211	0	52042	860715	7	4	0	0	0	0	0		
15	211	0	52043	860715	7	4	0	0	0	0	0		
15	211	0	52044	860715	7	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	214	510	52051	860715	2	4	0	0	0	0	0		
15	214	510	52052	860715	2	4	0	0	0	0	0		
15	214	510	52053	860715	2	4	0	0	0	0	0		

APPENDIX B (CONT.) - TRAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE from ref pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBS ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	214	S10	S2048	860715	4	4	0	0	0	0	0		
15	214	S10	S2049	860715	4	4	0	0	0	0	0		
15	214	S10	S2050	860715	4	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	214	80	S2057	860715	4.5	4	0	0	0	0	0		
15	214	80	S2058	860715	4.5	4	0	0	0	0	0		
15	214	80	S2059	860715	4.5	4	0	0	0	0	0		

APPENDIX 6D: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBs ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	214	80	52054	860715	9	4	0	0	0	0	0		
15	214	80	52055	860715	9	4	0	0	0	0	0		
15	214	80	52056	860715	9	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	214	510	54713	861026	9	19	0	0	0	0	0		32
15	214	510	54714	861026	9	19	0	0	0	0	0		35
15	214	510	54715	861026	9	19	0	0	0	0	0		34
15	214	510	54722	861026	9	19	0	0	0	0	0		33
15	214	510	54723	861026	9	19	0	0	0	0	0		27
15	214	510	54724	861026	9	19	0	0	0	0	0		36

APPENDIX 62 (LAM, AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SA#	DISTANCE from ref pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g	TOTAL PCBS ng/g
				MINIMUM					0.00	0.00			27.00
				MAXIMUM					0.00	0.00			36.00
				MEAN			0.00	0.00	0.00	0.00			32.83
				STD. DEVIATION			0.00	0.00	0.00	0.00			2.91
				n			6	6	6	6	6	0	6
15	216	570	52036	860714	4	4	0	0	0	0	0		
15	216	570	52037	860714	4	4	0	0	0	0	0		
15	216	570	52038	860714	4	4	0	0	0	0	0		
				MINIMUM			0.00	0.00	0.00	0.00	0.00		
				MAXIMUM			0.00	0.00	0.00	0.00	0.00		
				MEAN			0.00	0.00	0.00	0.00	0.00		
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00		
				n			3	3	3	3	3	0	0
15	216	570	52033	860714	6	4	0	0	0	0	0		
15	216	570	52034	860714	6	4	0	0	0	0	0		
15	216	570	52035	860714	6	4	0	0	0	0	0		

APPENDIX 6b: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE (WEEKS)	TRICHLOROBENZENE 1,2,3 ng/g	TRICHLOROBENZENE 1,2,4 ng/g	TRICHLOROBENZENE 1,3,5 ng/g	TRICHLOROTOLUENE 2,3,6 ng/g	TRICHLOROTOLUENE 2,4,5 ng/g	TRICHLOROTOLUENE 2,6,A ng/g		TOTAL PCBS ng/g
				MINIMUM			0.00	0.00	0.00	0.00	0.00			
				MAXIMUM			0.00	0.00	0.00	0.00	0.00			
				MEAN			0.00	0.00	0.00	0.00	0.00			
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00			
				n			3	3	3	3	3	0		0
15	218	0	54719	861026	6	15	0	0	0	0	0			26
15	218	0	54720	861026	6	15	0	0	0	0	0			74
15	218	0	54721	861026	6	15	0	0	0	0	0			51
				MINIMUM			0.00	0.00	0.00	0.00	0.00			26.00
				MAXIMUM			0.00	0.00	0.00	0.00	0.00			74.00
				MEAN			0.00	0.00	0.00	0.00	0.00			50.33
				STD. DEVIATION			0.00	0.00	0.00	0.00	0.00			19.60
				n			3	3	3	3	3	0		3

APPENDIX 6D - TRAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE from ref pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
15	1	0	52060	860611	2	0	0	[illegible]	[illegible]		0	0		0
15	1	0	52061	860611	2	0	0	[illegible]	[illegible]		0	0		0
15	1	0	52062	860611	2	0	0	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
15	1	0	52063	860611	2	0	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
15	1	0	52064	860611	2	0	0	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
				MINIMUM			0.00	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
				MAXIMUM			0.00	[illegible]	[illegible]		[illegible]	[illegible]		0.00
				MEAN			0.00	[illegible]	0.00		[illegible]	[illegible]		[illegible]
				STD DEVIATION			0.00	[illegible]	0.00		0.00	[illegible]		0.00
				n			5	5	5	0	5	5	0	5
15	18	635	52039	860714	7	4	21	184	[illegible]		6	[illegible]		0
15	18	635	52040	860714	7	4	17	48	[illegible]		3	[illegible]		[illegible]
15	18	635	52041	860714	7	4	20	220	[illegible]		7	[illegible]		[illegible]
				MINIMUM			17.00	48.00	0.00		3.00	[illegible]		0.00
				MAXIMUM			21.00	220.00	0.00		7.00	0.00		0.00
				MEAN			19.33	150.67	0.00		5.33	0.00		0.00
				STD DEVIATION			1.70	74.07	0.00		1.70	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	18	635	54725	861026	4	15	23	0	0	32	1	[illegible]		[illegible]
15	18	635	54726	861026	4	15	9	4	0	34	0	[illegible]		[illegible]
15	18	635	54727	861026	4	15	10	5	0	29	[illegible]	[illegible]		[illegible]

APPENDIX 6D. CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SN#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
				MINIMUM			9.00	0.00	0.00	29.00	0.00	0.00		0.00
				MAXIMUM			23.00	5.00	0.00	34.00	1.00	0.00		0.00
				MEAN			14.00	3.00	0.00	31.67	0.33	0.00		0.00
				STD. DEVIATION			6.38	2.16	0.00	2.05	0.47	0.00		0.00
				n			3	3	3	3	3	3	0	3
15	18	635	54716	861026	7	15	78	0	1	39	0	0		0
15	18	635	54717	861026	7	15	9	0	0	27	0	0		0
15	18	635	54718	861026	7	15	12	0	0	33	1	0		0
				MINIMUM			9.00	0.00	0.00	27.00	0.00	0.00		0.00
				MAXIMUM			78.00	0.00	1.00	39.00	1.00	0.00		0.00
				MEAN			33.00	0.00	0.33	33.00	0.33	0.00		0.00
				STD. DEVIATION			31.84	0.00	0.47	4.90	0.47	0.00		0.00
				n			3	3	3	3	3	3	0	3
15	132	0	52021	860714	7	4	0	0	0		0	0		0
15	132	0	52022	860714	7	4	0	0	0		0	0		0
15	132	0	52023	860714	7	4	0	0	0		0	0		0

APPENDIX D2. LRAMP AMBIENT DATA PARAMETER WEIGHT

BIRT OF WATER	SNR	DISTANCE FROM ref pt (m)	FSH	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
			MINIMUM				0.00	0.00	0.00		0.00	0.00		0.00
			MAXIMUM				0.00	0.00	0.00		0.00	0.00		0.00
			MEAN				0.00	0.00	0.00		0.00	0.00		0.00
			STD. DEVIATION				0.00	0.00	0.00		0.00	0.00		0.00
			n				3	3	3	0	3	3	0	3
15	132	0	52024	860714	10.9	4	0	0	0		0.00	0		0
15	132	0	52025	860714	10.9	4	0	0	0		0	0		0
15	132	0	52026	860714	10.9	4	0	0	0		0	0		0
			MINIMUM				0.00	0.00	0.00		0.00	0.00		0.00
			MAXIMUM				0.00	0.00	0.00		0.00	0.00		0.00
			MEAN				0.00	0.00	0.00		0.00	0.00		0.00
			STD. DEVIATION				0.00	0.00	0.00		0.00	0.00		0.00
			n				3	3	3	0	3	3	0	3
15	206	0	52030	860715	4	4	40	58	0		0	0		0
15	206	0	52031	860715	4	4	42	67	0		0	0		0
15	206	0	52032	860715	4	4	23	42	0		0	0		0

APPENDIX 6b: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SH#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZE 1,2,4,5 ng/g
				MINIMUM			23.00	42.00	0.00		0.00	0.00		0.00
				MAXIMUM			42.00	67.00	0.00		0.00	0.00		0.00
				MEAN			35.00	55.67	0.00		0.00	0.00		0.00
				STD. DEVIATION			8.52	10.34	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	206	0	52027	860715	7.9	4	29	42	0		0	0		0
15	206	0	52028	860715	7.9	4	35	56	0		0	0		0
15	206	0	52029	860715	7.9	4	34	48	0		0	0		0
				MINIMUM			29.00	42.00	0.00		0.00	0.00		0.00
				MAXIMUM			35.00	56.00	0.00		0.00	0.00		0.00
				MEAN			32.67	48.67	0.00		0.00	0.00		0.00
				STD. DEVIATION			2.62	5.73	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	211	0	52045	860715	4	4	11	20	0		0	0		0
15	211	0	52046	860715	4	4	10	18	0		0	0		0
15	211	0	52047	860715	4	4	10	21	0		0	0		0

APPENDIX 6D CLAMS AMBIENT DATA PARAMETER REPORT

BOAT OF WATER	SN#	DISTANCE from ref pt (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZEN 1,2,4,5 ng/g
				MINIMUM			10.00	18.00	0.00		0.00	0.00		0.00
				MAXIMUM			11.00	21.00	0.00		0.00	0.00		0.00
				MEAN			10.33	19.67	0.00		0.00	0.00		0.00
				STD. DEVIATION			0.47	1.25	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	211	0	52042	860715	7	4	16	86	0		3	0		0
15	211	0	52043	860715	7	4	19	98	0		3	0		0
15	211	0	52044	860715	7	4	22	22	0		5	0		0
				MINIMUM			16.00	22.00	0.00		3.00	0.00		0.00
				MAXIMUM			22.00	98.00	0.00		5.00	0.00		0.00
				MEAN			19.00	68.67	0.00		3.67	0.00		0.00
				STD. DEVIATION			2.45	33.36	0.00		0.94	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	214	510	52051	860715	2	4	6	6	0		0	0		0
15	214	510	52052	860715	2	4	4	5	0		0	0		0
15	214	510	52053	860715	2	4	3	0	0		0	0		0

APPENDIX 6b: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE from ref. pt. (m)	Fs#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLORBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZE 1,2,4,5 ng/g
				MINIMUM			3.00	0.00	0.00		0.00	0.00		0.00
				MAXIMUM			6.00	6.00	0.00		0.00	0.00		0.00
				MEAN			4.33	3.67	0.00		0.00	0.00		0.00
				STD DEVIATION			1.25	2.62	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	214	510	52048	860715	4	4	2	3	0		0	0		0
15	214	510	52049	860715	4	4	2	0	0		0	0		0
15	214	510	52050	860715	4	4	5	5	0		0	0		0
				MINIMUM			2.00	0.00	0.00		0.00	0.00		0.00
				MAXIMUM			5.00	5.00	0.00		0.00	0.00		0.00
				MEAN			3.00	2.67	0.00		0.00	0.00		0.00
				STD. DEVIATION			1.41	2.05	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	214	80	52057	860715	4.5	4	0	0	0		0	0		0
15	214	80	52058	860715	4.5	4	0	0	0		0	0		0
15	214	80	52059	860715	4.5	4	0	0	0		0	0		0

APPENDIX 6D: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SAMP	DISTANCE FROM REF PT (m)		DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZEN 1,2,4,5 ng/g
				MINIMUM			0.00	0.00	0.00		0.00	0.00		0.00
				MAXIMUM			0.00	0.00	0.00		0.00	0.00		0.00
				MEAN			0.00	0.00	0.00		0.00	0.00		0.00
				STD. DEVIATION			0.00	0.00	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	214	80	52054	860715	9	4	0	0	0		0	0		0
15	214	80	52055	860715	9	4	1	0	0		0	0		0
15	214	80	52056	860715	9	4	0	0	0		0	0		0
				MINIMUM			0.00	0.00	0.00		0.00	0.00		0.00
				MAXIMUM			1.00	0.00	0.00		0.00	0.00		0.00
				MEAN			0.33	0.00	0.00		0.00	0.00		0.00
				STD. DEVIATION			0.47	0.00	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	214	510	54713	861026	9	19	4.7	0	0	25	0	0		5
15	214	510	54714	861026	9	19	4	0	0	17	0	0		0
15	214	510	54715	861026	9	19	3.7	0	0	18	0	0		0
15	214	510	54722	861026	9	19	4	0	0	22	0	0		0
15	214	510	54723	861026	9	19	43	2	0	22	0	0		0
15	214	510	54724	861026	9	19	3.1	0	0	16	0	0		0

APPENDIX 6b: CLAMS AMBIENT DATA PARAMETER REPORT

BODY OF WATER	SW#	DISTANCE from ref. pt. (m)	FS#	DATE	SAMPLE DEPTH (m)	LENGTH OF EXPOSURE WEEKS	HEXACHLOROBENZENE ng/g	HEXACHLOROBUTADIENE ng/g	HEXACHLOROETHANE ng/g	OCTACHLOROSTYRENE ng/g	PENTACHLOROBENZENE ng/g	TETRACHLOROBENZENE 1,2,3,4 ng/g	TETRACHLOROBENZENE 1,2,3,5 ng/g	TETRACHLOROBENZENE 1,2,4,5 ng/g
				MINIMUM			3.10	0.00	0.00	16.00	0.00	0.00		0.00
				MAXIMUM			43.00	2.00	0.00	25.00	0.00	0.00		5.00
				MEAN			10.42	0.33	0.00	20.00	0.00	0.00		0.83
				STD. DEVIATION			14.58	0.75	0.00	3.21	0.00	0.00		1.86
				n			6	6	6	6	6	6	0	6
15	216	570	52036	860714	4	4	15	23	0		0	0		0
15	216	570	52037	860714	4	4	3	5	0		0	0		0
15	216	570	52038	860714	4	4	8	17	0		0	0		0
				MINIMUM			3.00	5.00	0.00		0.00	0.00		0.00
				MAXIMUM			15.00	23.00	0.00		0.00	0.00		0.00
				MEAN			8.67	15.00	0.00		0.00	0.00		0.00
				STD. DEVIATION			4.92	7.48	0.00		0.00	0.00		0.00
				n			3	3	3	0	3	3	0	3
15	216	570	52033	860714	6	4	46	17	0		2	0		0
15	216	570	52034	860714	6	4	10	13	0		0	0		0
15	216	570	52035	860714	6	4	7	32	0		2	0		0

APPENDIX 7

KETOX MODELLING USERS GUIDE

University of Windsor

KETOX Model

Version 3.12
October 1988

USERS GUIDE

Introduction

This model will simulate the hydrodynamics and far field pollutant transport for most river systems with multiple inputs of conservative or non-conservative chemicals. The model will also simulate the water column and the active bed layer sediment chemical concentrations. This is achieved by incorporating in the model the diffusive exchange between the water column and the sediment as well as the chemical decay and transport mechanism of the particulate.

Outline of the Model

The model requires the user to segment the river into channels or reaches. River segmentation is a very powerful tool and can be used to analyse complex river systems. Analyses of the river then normally begin at a segment where the boundary conditions are known, and proceed sequentially downstream. Thus the results found for one segment are used as the upstream boundary condition for the next segment.

The model is programmed in FORTRAN 77. A brief outline of the model's program structure may assists the user's understanding of the data preparation. The program consists of :

(a) a DIRECTORY or MAIN program which calls the following four Sub-Models (i.e. subroutines) :

Dispx - Hydrodynamics and Transport
Split - Divides flow into two channels
Unfrm - Mixes pollutant uniformly across a channel
Comb - Combines flow and pollutant from two channels into one;

and

(b) the Sub-Model itself which may or may not call on one or more of 13 other supporting subroutines (such as HYD, SYFLOW, RELAX, MIX, KE, ANALYT, TRIDG, SOLVE, TOXIC).

To run the model, the user must provide the necessary input data which are all confined within two input data files as described below :

(1) an executive command data file (e.g. **KETOX.DIR**) to specify the number of Sub-Models needed and to describe the calling sequence of the Sub-Model (i.e either Dispx or Split or Unfrm or Comb). The calling sequence of the Sub-Models will depend on how the modeller have segmented the river starting from the upstream segment to the downstream segment. Each Sub-Model's list of arguments will also be input along with the Sub-Model type;

and

(2) a second input data file (e.g. **KETOX.RIV**) to describe the boundary condition, decay and reaction rates constant, discretization, Manning's n, channel cross-section and outfall information. These are the minimum input data requirements for the model to run. The units for these input data are in feet-second for discharges and velocities, while the concentrations are in S.I. units. However additional input data on settling velocity, resuspension velocity, sedimentation rate, active bed layer thickness and partition coefficients for the water column and the sediments will be required if the modeller needs the chemical concentration in the bed.

The filenames **KETOX.DIR** and **KETOX.RIV** will now be used consistently for the rest of this document. However, the user is at liberty to change these filenames when running the model. It is recommended that the user keeps the filename extensions ".DIR" and ".RIV" so as to avoid confusion.

KETOX.DIR

As mentioned the DIRECTORY or MAIN program may call in any logical order any of the four Sub-Models (namely, Dispx, Split, Unfrm, Comb) to describe a river system. Each of these Sub-Models has an argument or parameter list which will be discussed in detail in the sections to follow on each of the four Sub-Models.

A hypothetical river system will now be used to illustrate the input data preparation for the file KETOX.DIR. For example, to simulate a river with an island and a reach with high mixing (e.g. waterfalls) such as that shown in Fig. G.2, the following organization of the Sub-Models (i.e. Dispx, Comb, Split and Unfrm) should be used in the executive command input data file (i.e. KETOX.DIR) :

```
Column|           1           2                                   6           7           8
      |12345678901234567890.....................012345678901234567890
------|-------------------------------------------------------------
Card 1|KETOXDIRRIV                                                - filename.RIV -
Card 2|Title :   *  *  *  River System Example  *  *  *
Card 3|No. of Sub-Models          NMODEL
Card 4|                              8
Card 5|Total River Inflow in cu.ft/s    QTOTAL
Card 6|                                      ......
Card 7|Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
Card 8|         ...     ...   ..    1     ...  .. .. .. ... ...  ...    ... ...
Card 9|Split PR1 PR2 NUSC NTOPC NBOTC
Card10|        ... ...  1       2       3
Card11|Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
Card12|         ...     ...   ..    2     ...  .. .. .. ... ...  ...    ... ...
Card13|Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
Card14|         ...     ...   ..    3     ...  .. .. .. ... ...  ...    ... ...
Card15|Comb  NUMBER QPERC FR1 FR2 AD NUMC1 NUMC22 NUMC FDX ........DX IDV ITX
Card16|         ...     ...   ..  ..  ..    2      3      1  ... .......... ... ...
Card17|Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
Card18|         ...     ...   ..    1     ...  .. .. .. ... ...  ...    ... ...
Card19|Unfrm NUMBER QPERC NUMBC QO CO ITX
Card20|         ...     ...     1    .. .. ...
Card21|Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
Card22|         ...     ...   ..    1     ...  .. .. .. ... ...  ...    ... ...
```

It should be pointed out that the first card must contain the second input data filename which in this case is KETOX.RIV. The card arrangement above also illustrates how to number the water column concentration array in each river segment (i.e. the parameters NUMCON,NTOPC,NBOTC).

SUB-MODELS

As illustrated in the above example, the four sub-models were repeatedly called eight times in the KETOX.DIR file in a certain calling sequence as needed to describe the segmentation of the river system example. The four Sub-Models may in turn use various of the 13 subroutines depending on the values given to each argument of the Sub-Model's argument or parameter list. Each of the Sub-Models and their individual arguments or parameters will now be explained in detail.

Dispx Sub-Model

The Dispersion Sub-Model can be applied to any simple river reach. On being called by the DIRECTORY, it will in turn read the outfall data from the second input data file (i.e. KETOX.RIV). Then it calls the simplified flow distribution model HYD (one of the 13 subroutines) which in turn, for each cross-section, reads the channel width and radius of curvature followed by 40 equally spaced flow depths across the channel from the seond input data file KETOX.RIV. The flow distribution is then computed including the secondary flow near the surface and bed at the centre line of

the river. At this point the model may use a constant dispersion coefficient and proceeds with the far field dispersion calculation. There is also an option to call the k-ϵ turbulence model to obtain the dispersion coefficient.

There are 13 user definable arguments in the executive command Dispx to be included in the command input data file. These arguments are described below :

```
Dispx NUMBER QPERC AD NUMCON CEXP IC NS NC DXK FACT NHALF IDV ITX
```

where Disp = executive command of the Sub-Model;
NUMBER = identification number of the reach;
QPERC = flow in the reach as a percentage of the total river inflow, QTOTAL;
AD = depth adjustment in the reach (default value = 1.0);
NUMCON = C array concentration identifier, i.e. storage location for current reach concentrations;
(note : 0,1,2,3,4,5,6,7 could be used)
CEXP = empirical exponent for the shape factor to account for bank effects on velocity distribution;
IC = 1 calls HYD or
0 reads flow pattern data ;
NS = number of cross-sections in the reach;
NC = number of equal sub-divisions of ΔX_T for computation of C;
DXK = +'ve ΔX_k for k-ϵ model or -'ve value bypasses the k-ϵ model;
FACT = factor to adjust default value of the dispersion coefficient (default value is 15 ft^2/s); and
NHALF = node at which transboundary estimate is made.
IDV = an integer parameter and must be one of the following cases:

0 no momentum modification is needed, that is the equilibrium velocity distribution calculated by the HYD subroutine is adequate for the reach. The corresponding k-ϵ model can be either activated or bypassed (i.e. DXK can be either +'ve or -'ve);

1 same as for IDV = 0, except that in addition the user must now include in the second input data file, 40 equally equally spaced representative velocity values across the first cross-section of the reach. These velocities should be fairly representative of those actually observed at the reach.

2 same as for IDV = 1, except that the k-ϵ model must be activated (i.e. the corresponding DXK parameter must always be +'ve). The momentum solution is implemented. In this case regions of jet flow can be adequately simulated by diffusing the excess or deficit momentum gradually across the reach. A momentum diffusion coefficient is required and is obtained from the

k-ε model. The momentum excess or deficit is computed relative to the equilibrium velocity distribution as calculated by HYD while ensuring that mass is conserved at all times in the diffusion process.

ITX = an integer parameter and must be one of the following cases:
0 no simulation of chemical concentration in the bed sediment is needed ; and
1 option to simulate chemical concentration in the bed sediments. Additional input data is needed on partition coefficients in the water column and the sediments, settling velocity, resuspension velocity and sedimentation rate. User must include these additonal input data in the second input data file KETOX.RIV.

Split Sub-Model

The Split Sub-Model divides the nodal concentrations e.g. C1, between two channels giving new nodal concentrations, e.g. C2 and C3 (see Fig. G3).

There are 5 user definable arguments in the executive command Split to be included as data in the command input file. These arguments are as follows :

```
Split PR1 PR2 NUSC NTOPC NBOTC
```

where Split = executive command of the Sub-Model;
PR1 = percentage of total flow (not of QTOTAL) assigned to channel adjacent to node No. 1 of NUSC;
PR2 = percentage of total flow (not of QTOTAL) assigned to channel adjacent to node No. NOD of NUSC;
(note: NOD = total number of nodes in any cross-section;
PR1 + PR2 = 100.0%)
NUSC = nodal concentration array ID before flow division;
NTOPC = nodal concentration array ID corresponding to channel with PR1 % of flow; and
NBOTC = nodal concentration array ID corresponding to channel with PR2 % of flow;

Comb Sub-Model

The Combine Sub-Model combines and mixes the loads from two channels at their confluence. The combining of the two flows is assumed to be completed in a distance DX. This programme identifies the concentration discontinuity at the shear-line between the combining flows and uses an analytical solution (MIX) to disperse these concentrations. A turbulent dispersion using Dispx may subsequently be applied to the resulting concentrations (see Fig. G4).

The user must define 16 arguments as data in the command input file for the executive command Comb. These arguments are :

Comb NUMBER QPERC FR1 FR2 AD NUMC1 NUMC2 NUMC FDX CEXP IC NS NC DXK DX IDV ITX

where Comb = executive command of the Sub-Model;
NUMBER = identification of the reach;
QPERC = flow in the reach as a percentage of QTOTAL;
FR1 = % fraction of flow entering from channel 1 which is adjacent to Node No. 1 in the resultant downstream channel;
FR2 = % fraction of flow entering from channel 2, i.e. adjacent to Node No. NOD in downstream channel;
(note: FR1 + FR2 = 100.0 % ; and
NOD = number of lateral nodes)
AD = depth adjustment in the reach (default value=1.0);
NUMC1 = concentration array ID in channel 1;
NUMC2 = concentration array ID in channel 2;
NUMC = resultant concentration array ID (see Fig. G.4);
(note: In Fig.G4, NUMC1=1, NUMC2 = 2 and NUMC = 3)
FDX = factor by which the normal dispersion coefficient at the middle of the channel should be multiplied to account for the increased mixing due to the impact of one flow on the other. If the junction is smooth (flows nearly parallel with similar average currents) then FDX = 1 as the flows meet at larger angled (α) (up to 180^{o}) or larger differential currents the value of FDX will increase. The relative magnitude of each flow is also important. For a right angle confluence of approximately equal flows, it was found that 10.0 < FDX < 30.0 ;
CEXP = empirical exponent for the shape factor to account for bank effects on velocity distribution;
IC = 1 calls HYD or
0 reads flow pattern data;
NS = number of cross-section in a reach, normally = 2 ;
NC = number of equal sub-divisions of ΔX_T for computation of C;
DXK = +'ve ΔX_k for k-ϵ model or -'ve value bypasses the k-ϵ model; and
DX = assumed extent of confluence mixing effect.
IDV = an integer parameter that can be either 0, 1 or 2 (see detailed explanation in sub-model Dispx).
ITX = an integer parameter and must be one of the following cases:
0 no simulation of chemical concentration in the bed sediment is needed ; and
1 option to simulate chemical concentration in the bed sediments. Additional input data is needed on partition coefficients in the water column and the sediments, settling velocity, resuspension velocity and sedimentation rate. User must include these additonal input data in the second input data file KETOX.RIV.

Unfrm Sub-Model

Sometimes the contaminant in a channel can be assumed to be completely mixed vertically and laterally. This may occur along narrow channels, in whirlpools, on waterfalls or in hydraulic jumps.

The Uniform Sub-Model uniformly mixes the inflow with any local inputs and over-writes the old C array with a new one. Unfrm is used as an executive command in the input file with the following arguments :

```
Unfrm NUMBER QPERC NUMBC QO CO ITX
```

where Unfrm = executive command for the Sub-Model;
NUMBER = identification of the reach location;
QPERC = flow entering this section as a percentage of QTOTAL;
NUMBC = concentration array ID for the channel to be uniformly mixed;
QO = local outfall discharge in cu.ft/s; and
CO = local outfall concentration.
ITX = an integer parameter and must be one of the following cases:
0 no simulation of chemical concentration in the bed sediment is needed ; and
1 option to simulate chemical concentration in the bed sediments. Additional input data is needed on partition coefficients in the water column and the sediments, settling velocity, resuspension velocity and sedimentation rate. User must include these additonal input data in the second input data file KETOX.RIV.

KETOX.RIV

The filename "KETOX.RIV" must be specified in Card 1 of KETOX.DIR. A summary of the input data required for KETOX.RIV is given in Table G.1. It is made up of two groups of input data described as data Group A and Group B.

Data Group A

The first five input cards complete this group. Their card arrangement are illustrated below:

Column	1	2	6	7	8
	1234567890	1234567890	1234567890	1234567890	
Card 1	TT			TT	
Card 2	AA BB				
Card 3	C_1 C_2 C_3			C_{AA}	
Card 4	D_1 D_2 D_3		D_{AA-1}	100.	
Card 5	EE				

	Variable		Definition	Units
Card1	TT..TT	Title	Title of river simulated	---
Card2	AA	Nodes	Number of nodal points laterally across each river cross-section (typically AA = 15)	---
	BB	DX*	Space step between two adjacent cross-section of the river (* see additional note on DX)	feet
Card3	C_1..C_{AA}	Conc.	Initial (ambient) chemical concentrations at the upstream boundary (typically 15 values)	S.I. ML^{-3}
Card4	D_2..100.0	n	Initial upstream boundary stream function values for node 2 to node AA (D_1 = 0.0%)	%
Card5	EE	Decay	A combined effective decay constant	sec^{-1}

* Additional Note on DX

The value of DX will remain the same for the entire river to be modelled once its numeric value is chosen by the modeller. DX will determine how many cross-sections the modeller must provide in order to segment the entire river to be simulated. For instance, the length of a river segment such as *Dispx* divided by the value of DX will give the number of river cross-sections (NS parameter) in the segment which the modeller must discretize. The modeller must then provide river depths at each node (typically 15 nodes are used) for each river cross-section. Hence the spatial resolution to describe the actual river bathmetry is controlled by the value of DX chosen. However, it should not be confused with the numerical spatial resolution of the model which can be controlled by the value chosen for the NC parameter.

Data Group B

Only the river segments in the KETOX.DIR file that call the Sub-Models *Dispx* and *Comb* will have additional input data requirements in this group. The card arrangement for these additional input data are shown in Table G.1 under the sub-heading Data Group B.

Table G.1

Card	Item	Variables	Explanation	Integer	Decimal	Format	Units
Data Group A							
MAIN Program							
1	1	Title	River System Example			Free	---
2	1	NOD	No. of nodes	x		Free	---
	2	DX	Distance between cross-sections		x	Free	feet
3	1 to NOD	C	Initial Concentrations at nodes (ML^{-3})		x	Free	S.I.
4	1 to NOD-1	UPR	Accumulated % of flow from base shore to Nodes 2,3,.....NOD		x	Free	%
5	1	DECAY	Decay constant per second		x	Free	sec^{-1}
Data Group B							
% % For Each Executive Command *Dispx*							
6-1	1	NFALL	No. of point or non-point sources to be considered in this reach	x		Free	---
	1	XFALL	Distance from start of reach to outfall		x	Free	feet
	2	JFALL	The node at which outfall input is assigned	x		Free	---
	3	CFALL	Concentration of outfall (ML^{-3})		x	Free	S.I.
	4	QFALL	Outfall discharge		x	Free	cu.ft/s
For ITX of 1 (i.e. suspended and bed sediments included) the following input data are needed							
6-2	1	NLAY	Number of layers : Layer 1 => Water Column Layer 2 => Active Bed Layer	x		Free	---
	2	NSYSTEM	Number of Systems : System 1 => Biotic Particles System 2 => Fine Abiotic Particles System 3 => Coarse Abiotic Particles	x		Free	---
	3	NPAR	= 0 , use previously read kinetic constants = 1 , read in new kinetic constants	x		Free	---
	4	ISY	Print-out control selection : = 0 , print only Conc. C(i,j) in layer 1, i.e. typically water column conc. = 1 , print C(i,j) and CP(layer,nsystem,j), i.e. water column and bed particulate conc. = 2 , print the same as ISY = 1 and CD(layer,j) = 3 , print the same as ISY = 1 and CBED(j), i.e. total bed conc. = 4 , print the same as ISY = 3 and THALF(1,j)	x		Free	---

			and THALF(2,j) :			
			THALF(1,j) = time for bed conc. to increase from 0 to CBED(j)/2			
			THALF(2,j) = time for bed conc. to decrease from CBED(j) to CBED(j)/2			
	5	POROSITY	Bed layer porosity		Free	---
6-3	1	PHK	Photolysis rate constant	x	Free	sec^{-1}
	2	HYK	Hydrolysis rate constant	x	Free	sec^{-1}
	3	BIOK	Biodegradation rate constant	x	Free	sec^{-1}
	4	OIK	Oxidation rate constant	x	Free	sec^{-1}
	5	EVK	Volatilization rate constant	x	Free	feet/s
	6	BK	Effective decay rate in the bed sediment	x	Free	sec^{-1}
	7	BD	Diffusion coefficient for the bed layer	x	Free	feet/s
6-4	1 to 15	BEDH2(1..15)	Active bed layer thickness at 15 bed nodes	x	Free	feet

For Each Layer (Layer = 1 to NLAY), repeat the following input data for System (System = 1 to NSYSTEM)

6-5	1	WP(Syst)	Settling velocity of the System	x	Free	feet/s
	2	WRS(Syst)	Resuspension velocity of the System	x	Free	feet/s
	3	WS(Syst)	Sedimentation rate by the System	x	Free	feet/s
6-6	1	PI(Lay1,Syst)	Partition coeff. in Layer 1 of the System	x	Free	---
	2	AMC(Lay1,Syst)	Mass Conc. in Layer 1 of the System	x	Free	mg/L
6-7	1	PI(Lay2,Syst)	Partition coeff. in Layer 2 of the System	x	Free	---
	2	AMC(Lay2,Syst)	Mass Conc. in Layer 2 of the System	x	Free	mg/L

For IDV of 1 or 2 observed velocities must be included as data 10 values per card

6-8	1 to 40	UA(I)	40 velocities equally distributed across the channel in ft/s.	x	Free	feet/s

The following data block consisting of cards 6-9 & 6-10 is repeated NS times for each reach.

6-9	1	DW	Section width in ft.	x	Free	feet
	2	RC	Radius of curvature to middle of channel (+ from Node 1)		Free	feet
6-10	1 to 40	D(I)	40 depths uniformly distributed across the channel in ft. (cannot specify zero depths)	x	Free	feet

* * For Each Executive Command *Comb* (NS = 2)
It is assumed that there is only one outfall.

7-1	1	XFALL		x	Free	feet
	2	JFALL		x	Free	---
	3	CFALL	usually 0.0 (ML^{-3})	x	Free	S.I.
	4	QFALL	usually 0.0	x	Free	cu.ft/s

For IDV of 1 or 2 observed velocities must be included as data 10 values per card

7-2	1 to 40	UA(I)	40 velocities equally distributed across the channel in ft/s.		x	Free	feet/s

For Comb repeat twice the following data block consisting of cards 7-3 & 7-4.

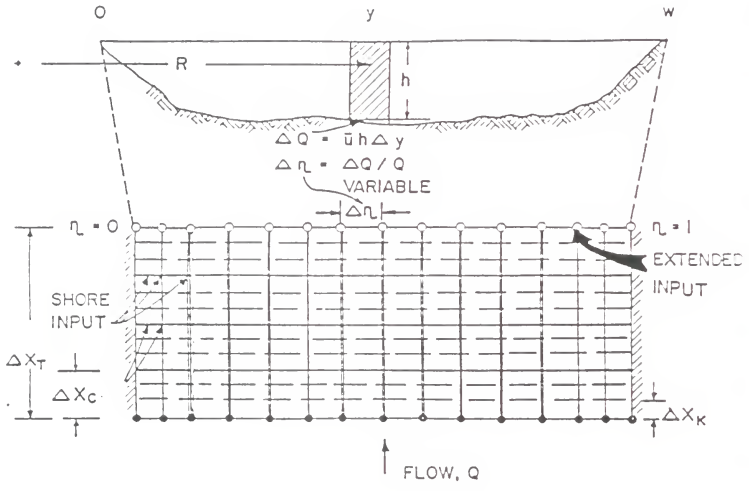
7-3	1	DW	Section width in ft.		x	Free	feet
	2	RC	Radius of curvature to middle of channel (+ from Node 1)			Free	feet
7-4	1 to 40	D(I)	40 depths uniformly distributed across the channel in ft. (cannot specify zero depths)		x	Free	feet

Program Implementation

The present version of the program is compiled using Microsoft FORTRAN 77 Optimizing Compiler Version 4.1 and is written with the intention of enabling the user a greater flexibility in the set-up of the input data without having to modify the source program itself. It also provides the user with the option to vary the defaulted input parameters such as the total river flow, the river depth adjustment for each reach and the provision for ice cover simulation through an interactive capability. This version of the model requires two input data files presently referred to in this document as KETOX.DIR and KETOX.RIV. The file KETOX.DIR is also referred to as the executive command input data file, while KETOX.RIV is described as the second input data file in the entire document. The input data cards for KETOX.DIR have been clearly illustrated for a simple river system example. Table G.1 shows the required arrangement of input data cards for the file KETOX.RIV.

The program is written to run on IBM PC/XT/AT or any IBM compatible microcomputer. The user must ensure that the following files are on the program diskettes :

File	Contents
KETOX88.EXE	Executable image to run on machines with 8087 Math coprocessor installed.
KETOX.EXE	Executable image to run on machines without 8087 Math processor installed.
KETOX.DIR	Executive command input data file.
KETOX.RIV	Supporting input data file.



$\Delta X_C = \Delta X_T / NC$

$\Delta X_K \leq \Delta X_C$

= K - ε GRID SIZE IN FLOW DIRECTION

Figure 61 Definition of Computational Grids for Input Data, C and k-ε.

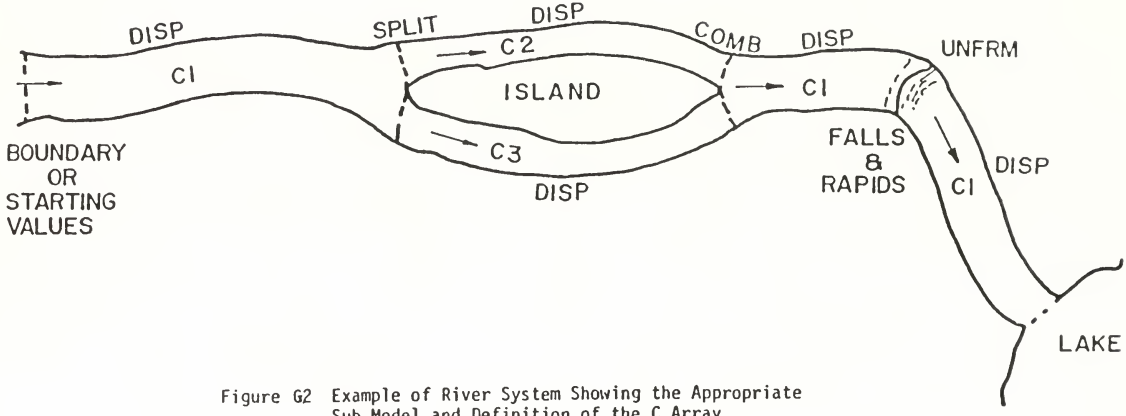


Figure G2 Example of River System Showing the Appropriate Sub-Model and Definition of the C Array.

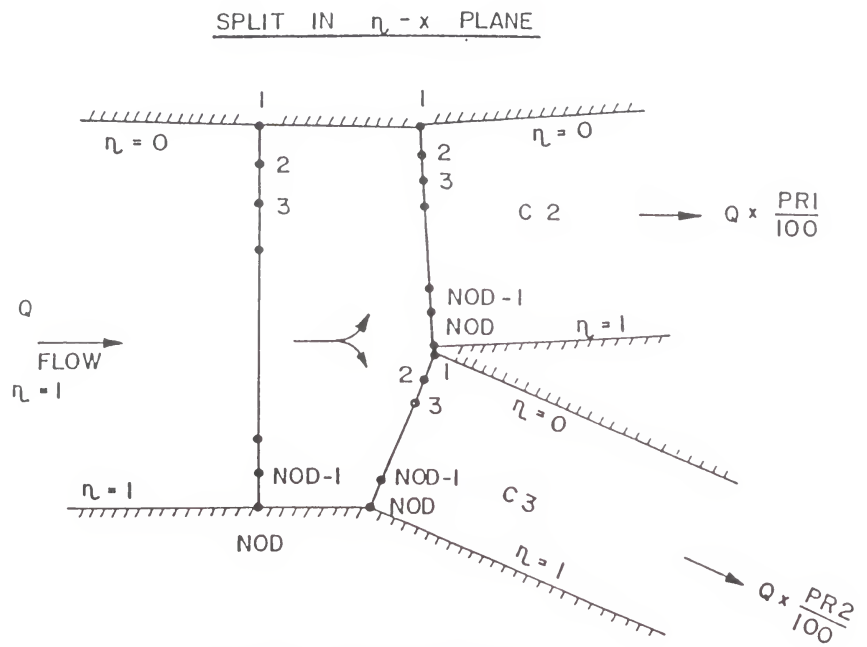


Figure G3 Definition Diagram for the SPLIT Sub-Model.

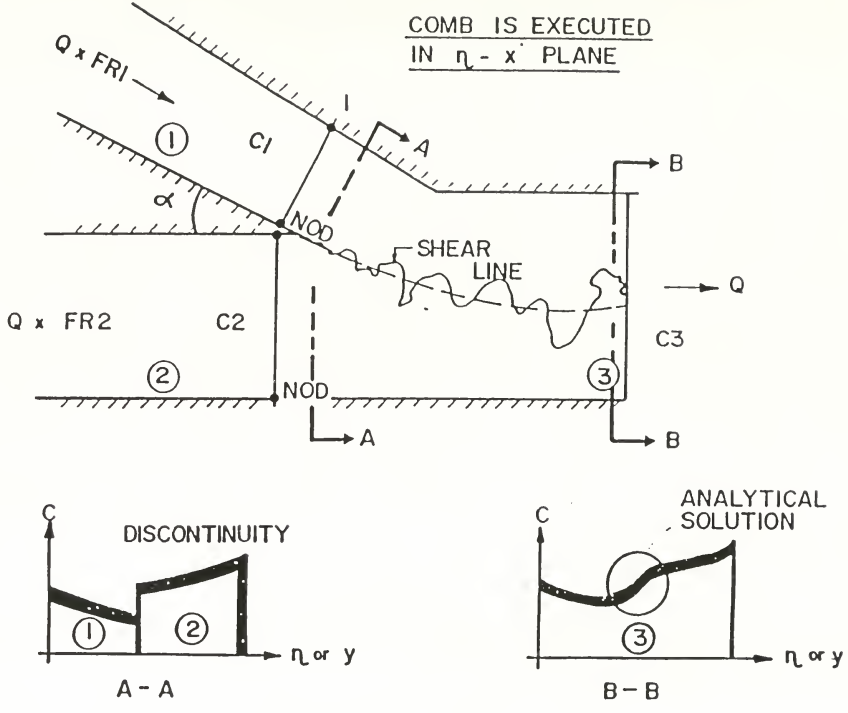
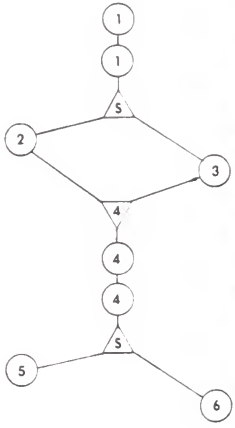


Figure G4 Definition Sketch for COMB Sub-Model.

```
******** River Dispersion Model of HCB - St. Clair River
No. of Sub-Models     NMODEL
                        8
Inflow in cu.ft/s      QTOTAL
                      186600.0
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        1  100.0  1.0   0    0.12 1  11 4  -10.0  0.5  8    0    1
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        1  100.0  1.0   0    0.12 1  13 16  10.0  0.5  8    0    1
Split   PR1    PR2    NUSC  NTOPC  NBOTC
       30.3   69.7     0     1      2
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        2  69.7  1.0   2    0.12 1  6  8  -50.0  0.5  8    0    1
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        3  30.30 1.0   1    0.12 1  6  4   10.0  0.5  8    0    1
Combine NUM QPERC FR1 FR2  AD  NUMC1 NUMC2 NUMC FDI  CEXP IC NS NC DIK IDV ITI
        4  100.0 30.3 69.7 1.0  1     2     3   10.0 0.12 1  2  4 -25.0  0  0
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        4  100.0  1.0   3    0.12 1  23 4   5.0  0.4  8    0    1
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        4  100.0  1.0   3    0.12 1  27 4   5.0  0.4  8    0    1
Split   PR1    PR2    NUSC  NTOPC  NBOTC
       60.0   40.0     3     4      5
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        5  40.00 1.0   5    0.12 1  15 4   50.0  0.4  8    0    1
Dispers NUM QPERC  AD  NUMCON CEXP IC NS NC  DIK  FACT NHALF IDV  ITI
        6  60.00 1.0   4    0.12 1  19 4   50.0  0.4  8    0    1
```



```
**** Dispersion of Contaminants Model (HCB) - St. Clair River
15,2000.0                                                    * Nodes  DX
.01,.01,.01,.01,.01,.01,.01,.01,.01,.01,.01,.01,.01,.01,.01 * 15 Initial Conc.
2.,5.,9.,14.,21.,31.,40.,50.,66.,74.,82.,89.,95.,100.        * 15 Stream Func.
0.00000106501                                                * Decay Constant
1   *   NFALL at Reach 1   *   Dispersion   *
2000,3,00.0,81.0                                 * XFALL NODE CONC ØFALL : REACH 1
2,3,1,4,.4                                       *-*  NLAY NSYSTEM NPAR ISY PORDSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5        *-*  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.25,.25,.06,.06,.06,.06,.06,.06,.25,.25,.25,.25     *-*  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                  *-*  WP WRS WS     Biotic Solids  System 1
1.0E05,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                          *-*  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                   *-*  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                              *-*  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                   *-*  WP WRS WS     ABiotic Solids System 3
1.0E04,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 3
1500.0,7000.0                                                  *  X'SECT.1
4,4,6,8,10,12,14,16,20,25,28,30,40,50,50,50,60,60,60,60
50,50,50,50,40,40,40,40,30,30,30,30,30,30,30,30,20,15,10,6
700.0,7000.0                                                   *  X'SECT.2
40,40,40,40,48,48,48,48,48,48,48,48,48,48,48,48,48,48,48,48
45,45,45,45,45,45,45,45,45,45,45,40,40,40,40,30,30,30,30
1300.0,7000.0                                                  *  X'SECT.3
20,20,20,20,25,25,25,25,30,30,30,30,48,48,48,48,48,48,48,48
48,48,48,48,45,45,45,45,45,45,45,40,40,40,40,30,30,30,30
1400.0,7000.0                                                  *  X'SECT.4
4.,6.,8.,10,12,18,20,24,30,30,30,30,37,37,37,37,37,37,37,37
37,37,37,37,37,37,37,37,33,33,33,33,30,30,30,30,30,30,30,30
1800.0,10000.0                                                 *  X'SECT.5
25,25,25,25,25,25,25,25,25,25,25,25,30,30,30,30,40,40,40,40
40,40,40,40,45,45,45,45,48,48,48,48,35,35,35,35,30,20,15,10
3500.0,15000.0                                                 *  X'SECT.6
4.,4.,4.,4.,4.,4.,4.,4.,4.,4.,4.,6.,6.,6.,6.,6.,6.,6.,6.,6.
8.,10,12,18,25,25,25,25,30,30,30,30,30,30,30,30,30,20,15,10
2500.0,-7000.0                                                 *  X'SECT.7
10,15,20,23,23,23,23,23,28,28,28,28,30,30,30,30,30,30,30,30
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,15,10,8.
2500.0,-7000.0                                                 *  X'SECT.8
10,15,20,23,23,23,23,23,28,28,28,28,30,30,30,30,30,30,30,30
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,15,10,8.
1900.0,-8000.0                                                 *  X'SECT.9
10,15,20,23,23,23,23,23,28,28,28,28,30,30,30,30,30,30,30,30
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,15,10,8.
1600.0,-10000.0                                                *  X'SECT.10
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
1700.0,15000.0                                                 *  X'SECT.11
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
```

```
n   *   NFALL at Reach 1   *   Dispersion   * mg/L
2000,3,140.0,29.0                                   * XFALL NODE CONC QFALL : REACH 1
3700,-1,50.0,11.2                                   * XFALL NODE CONC QFALL : REACH 1
4590,-1,508.,60.0                                   * XFALL NODE CONC QFALL : REACH 1
4650,-1,10.0,8.8                                    * XFALL NODE CONC QFALL : REACH 1
5476,-1,30.0,22.0                                   * XFALL NODE CONC QFALL : REACH 1
6330,-1,70.0,30.5                                   * XFALL NODE CONC QFALL : REACH 1
7200,-1,103.,148.0                                  * XFALL NODE CONC QFALL : REACH 1
21000,-1,40.0,23.6                                  * XFALL NODE CONC QFALL : REACH 1
2,3,1,4,.4                                          *-*  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-8,2.E-5   *-*  PHK HYK BIOk OXK EVK BK BD
.25,.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25,.25     *-*  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                  *-*  WP WRS WS     Biotic Solids System 1
5.0E05,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 1
5.0E05,6.36E04                          *-*  PI & Mass Conc. of Layer 2 & System 1
1.6E-4,0.8E-8,1.0E-15                   *-*  WP WRS WS     ABiotic Solids System 2
5.0E05,6.0                              *-*  PI & Mass Conc. of Layer 1 & System 2
5.0E05,1.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 2
1.0E-2,.31E-7,1.0E-16                   *-*  WP WRS WS     ABiotic Solids System 3
5.0E05,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 3
5.0E05,3.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 3
1700.0,15000.0                                                    *  X'SECT.11
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
1900.0,20000.0                                                    *  X'SECT.12
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
2000.0,15000.0                                                    *  X'SECT.13
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
2000.0,15000.0                                                    *  X'SECT.14
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
2000.0,18000.0                                                    *  X'SECT.15
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
2000.0,20000.0                                                    *  X'SECT.16
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
2000.0,20000.0                                                    *  X'SECT.17
10,15,20,25,27,27,27,27,28,28,28,28,30,30,30,30,35,35,35,35
30,30,30,30,28,28,28,28,28,28,28,28,28,25,25,25,25,20,15,10,8.
1800.0,20000.0                                                    *  X'SECT.18
8.,12,16,20,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30
30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,20,16,12,8.
1900.0,20000.0                                                    *  X'SECT.19
8.,12,16,20,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30
30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,30,20,16,12,8.
2100.0,20000.0                                                    *  X'SECT.20
10,20,25,30,30,30,30,30,32,32,32,32,32,32,32,35,35,35,35
40,40,40,40,40,40,40,40,30,30,30,30,30,30,30,30,20,15,10,8.
2200.0,20000.0                                                    *  X'SECT.21
10,20,25,30,30,30,30,30,32,32,32,32,32,32,32,35,35,35,35
40,40,40,40,40,40,40,40,30,30,30,30,30,30,30,30,20,15,10,8.
```

```
3100.0,20000.0                                                    *  X'SECT.22
4.,6.,6.,8.,12,16,20,25,27,27,27,27,27,27,27,27,25,25,25,25
17,17,17,17,17,17,17,17,17,17,17,17,17,17,17,12,10,8.,6.
4100.0,20000.0                                                    *  X'SECT.23
4.,6.,8.,10,20,20,20,20,25,25,25,25,20,18,16,14,10,4.,4.,4.
10,12,18,25,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,8.
5   *   NFALL at Reach 2   *   Dispersion   *
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 2
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 2
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 2
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 2
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 2
2,3,1,4,.4                                 *-*  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5  *-*  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25     *-*  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                *-*  WP WRS WS     Biotic Solids  System 1
1.0E05,1.0                            *-*  PI & Mass Conc. of Layer 1 & System 1
0.5E05,6.36E04                        *-*  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                 *-*  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                            *-*  PI & Mass Conc. of Layer 1 & System 2
0.25E05,1.2E05                        *-*  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                 *-*  WP WRS WS     ABiotic Solids System 3
1.0E02,1.0                            *-*  PI & Mass Conc. of Layer 1 & System 3
0.5E02,3.2E05                         *-*  PI & Mass Conc. of Layer 2 & System 3
2600.0,25000.0                                                    *  X'SECT.1
2.,2.,2.,3.,4.,8.,10,11,11,11,11,11,22,22,22,22,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,15,8.
2000.0,30000.0                                                    *  X'SECT.2
4.,4.,6.,8.,10,12,14,18,20,23,24,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,23,15,8.
1600.0,30000.0                                                    *  X'SECT.3
4.,4.,6.,8.,10,12,14,18,20,23,24,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,23,15,8.
1800.0,40000.0                                                    *  X'SECT.4
3.,3.,3.,3.,5.,8.,12,20,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
2000.0,40000.0                                                    *  X'SECT.5
5.,5.,5.,5.,10,15,20,22,22,22,22,22,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
2100.0,40000.0                                                    *  X'SECT.6
5.,5.,5.,5.,10,15,20,22,22,22,22,22,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
5   *   NFALL at Reach 3   *   Dispersion   *
2000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 3
4000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 3
6000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 3
8000.0,14,0.0,0.0                          * XFALL NODE CONC OFALL : REACH 3
10000.0,14,0.0,0.0                         * XFALL NODE CONC OFALL : REACH 3
2,3,1,4,.4                                 *-*  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5  *-*  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.25,.25,.06,.06,.06,.06,.06,.06,.25,.25,.25     *-*  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                *-*  WP WRS WS     Biotic Solids  System 1
1.0E05,1.0                            *-*  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                        *-*  PI & Mass Conc. of Layer 2 & System 1
```

```
3.2E-4,1.6E-8,1.0E-15                    *-*  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                               *-*  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                            *-*  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                    *-*  WP WRS WS     ABiotic Solids System 3
1.0E04,1.0                               *-*  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                            *-*  PI & Mass Conc. of Layer 2 & System 3
1500.0,-8000.0                                                    *  X'SECT.1
8.,10,15,20,22,24,26,26,26,26,26,26,26,26,26,26,26,26,26,26,26,26,26,26
26,26,26,26,24,22,20,20,15,13,13,11,11,10,10,10,10,8.,5.,4.
1150.0,-6000.0                                                    *  X'SECT.2
4.,10,15,20,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,25
23,23,23,23,23,23,23,23,20,20,20,20,18,17,15,12,10,8.,6.,4.
1200.0,-8000.0                                                    *  X'SECT.3
4.,4.,6.,10,15,20,30,30,30,30,30,30,30,30,30,30,24,24,24,24
24,24,24,24,25,25,25,25,25,25,25,25,25,25,20,15,10,10,8.,6.,4.
1150.0,-10000.0                                                   *  X'SECT.4
4.,4.,6.,10,15,20,30,30,30,30,30,30,30,30,30,30,24,24,24,24
24,24,24,24,25,25,25,25,25,25,25,25,25,25,20,15,10,10,8.,6.,4.
1300.0,15000.0                                                    *  X'SECT.5
4.,4.,8.,10,15,20,27,30,30,30,30,30,30,30,30,30,32,32,32,32
32,32,32,32,20,18,16,14,12,12,12,12,10,10,10,10,10,8.,6.,4.
1500.0,30000.0                                                    *  X'SECT.6
4.,4.,8.,10,15,20,27,30,30,30,30,30,30,30,30,30,32,32,32,32
32,32,32,32,20,18,16,14,12,12,12,12,10,10,10,10,10,8.,6.,4.
500.0,14,0.0,0.0   #   Reach 4   #   Combine : XFALL NODE CONC QFALL
3600.0,40000.0                                                    *  X'SECT.1
6,6,20,20,27,27,27,27,27,30,30,30,20,15,10,6,6,6,6,6
4,4,6,8,10,15,15,15,20,20,27,27,27,27,27,27,27,25,20,10
3700.0,40000.0                                                    *  X'SECT.2
5.,10,18,22,22,22,27,27,27,27,27,27,27,27,27,27,27,27,23,18,12
4.,10,12,18,20,26,27,30,30,30,30,30,25,20,15,12,10,8.,6.,4.
1  #   NFALL at Reach 4   #   Dispersion   #
12000,1,1.0,11.0                         # XFALL NODE CONC QFALL : REACH 4
2,3,1,4,.4                               #-*  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5  #-*  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25     #-*  BEDH2(J)
8.0E-5,1.26E-3,1.0E-15                   *-*  WP WRS WS     Biotic Solids  System 1
1.0E05,1.0                               *-*  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                           *-*  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                    *-*  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                               *-*  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                            *-*  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                    *-*  WP WRS WS     ABiotic Solids System 3
1.0E04,1.0                               *-*  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                            *-*  PI & Mass Conc. of Layer 2 & System 3
3700.0,40000.0                                                    *  X'SECT.1
5.,10,18,22,22,22,27,27,27,27,27,27,27,27,27,27,27,27,23,18,12
4.,10,12,18,20,26,27,30,30,30,30,30,25,20,15,12,10,8.,6.,4.
3300.0,40000.0                                                    *  X'SECT.2
5.,5.,10,15,20,20,30,34,36,36,36,36,36,36,36,36,25,20,15,18
18,18,18,18,20,23,25,27,27,27,27,27,27,27,27,27,27,27,20,10
2700.0,40000.0                                                    *  X'SECT.3
5.,10,12,16,18,20,21,21,21,21,21,21,33,33,33,33,35,35,35,35
35,35,35,35,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
```

```
2300.0,40000.0                                                          *  X'SECT.4
5.,10,17,17,17,18,20,20,30,30,30,30,30,30,30,30,35,35,35,35
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,6.
2100.0,30000.0                                                          *  X'SECT.5
5.,10,17,17,17,18,20,20,30,30,30,30,30,30,30,30,35,35,35,35
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,6.
2500.0,25000.0                                                          *  X'SECT.6
5.,10,17,17,17,18,20,20,30,30,30,30,30,30,30,30,35,35,35,35
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,6.
2900.0,20000.0                                                          *  X'SECT.7
5.,5.,10,18,25,25,25,25,26,26,26,26,26,26,26,26,26,26,26,26
21,21,21,21,25,25,25,25,27,27,27,27,27,27,27,27,25,20,10,10
3400.0,20000.0                                                          *  X'SECT.8
5.,5.,10,15,20,25,30,30,30,30,30,30,25,25,25,25,20,20,20,20
18,16,12,7.,12,15,20,27,27,27,27,27,27,27,27,27,27,25,20,10
3500.0,20000.0                                                          *  X'SECT.9
5.,5.,10,15,20,30,30,30,26,26,26,26,18,18,18,18,26,26,26,26
26,25,18,16,12,8.,5.,5.,5.,8.,12,20,27,27,27,27,27,27,25,10
3200.0,20000.0                                                          *  X'SECT.10
5.,15,20,25,26,26,26,26,26,26,26,26,26,21,15,13,13,15,25,18
12,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,8.
2300.0,15000.0                                                          *  X'SECT.11
4.,12,18,20,23,23,23,23,23,23,23,25,25,25,25,25,25,25,25,25
20,20,20,20,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,8.
2200.0,10000.0                                                          *  X'SECT.12
4.,12,18,20,29,29,29,29,29,29,29,30,30,30,30,34,34,34,34
39,39,39,39,40,40,40,40,29,29,29,29,25,25,25,25,20,15,10,8.
2000.0,8000.0                                                           *  X'SECT.13
4.,12,18,20,29,29,29,29,29,29,29,30,30,30,30,34,34,34,34
39,39,39,39,40,40,40,40,29,29,29,29,25,25,25,25,20,15,10,8.
1650.0,10000.0                                                          *  X'SECT.14
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,35,35,35,35
33,33,33,33,33,33,33,33,33,33,33,33,30,30,30,30,25,20,15,10
1600.0,-20000.0                                                         *  X'SECT.15
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,35,35,35,35
33,33,33,33,33,33,33,33,33,33,33,33,30,30,30,30,25,20,15,10
1700.0,-40000.0                                                         *  X'SECT.16
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,40,40,40,40
45,45,45,45,35,35,35,35,33,33,33,33,30,30,30,30,25,20,15,10
1700.0,40000.0                                                          *  X'SECT.17
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,40,40,40,40
45,45,45,45,35,35,35,35,33,33,33,33,30,30,30,30,25,20,15,10
1600.0,40000.0                                                          *  X'SECT.18
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,40,40,40,40
45,45,45,45,35,35,35,35,33,33,33,33,30,30,30,30,25,20,15,10
1650.0,40000.0                                                          *  X'SECT.19
4.,6.,10,15,28,28,28,28,30,30,30,30,35,35,35,35,40,40,40,40
45,45,45,45,35,35,35,35,33,33,33,33,30,30,30,30,25,20,15,10
1900.0,40000.0                                                          *  X'SECT.20
4.,10,20,30,32,32,32,32,36,36,36,36,40,40,40,40,44,44,44,44
44,44,44,44,35,35,35,35,35,35,35,35,25,25,25,25,20,15,10,6.
2000.0,30000.0                                                          *  X'SECT.21
4.,4.,8.,12,18,22,28,28,30,30,30,30,35,35,35,35,44,44,44,44
36,36,36,36,36,36,36,36,30,30,30,30,30,30,30,30,20,15,10,8.
```

```
2500.0,15000.0                                                  *  X'SECT.22
4.,4.,8.,12,16,18,20,22,25,25,25,25,30,30,30,30,34,34,34,34
36,36,36,36,40,40,40,40,40,40,40,40,28,28,28,28,25,20,15,10
2900.0,20000.0                                                  *  X'SECT.23
4.,4.,8.,12,16,18,20,22,25,25,25,25,30,30,30,30,34,34,34,34
36,36,36,36,40,40,40,40,40,40,40,40,28,28,28,28,25,20,15,10
1   #   NFALL at Reach 4   #   Dispersion   #
22000,1,2.0,6.0                                 # XFALL NODE CONC DFALL : REACH 4
2,3,1,4,.4                                      #-#  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-8,1.E-6,1.E-7,2.E-5   #-#  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25     #-#  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                  #-#  WP WRS WS     Biotic Solids System 1
1.0E05,1.0                              #-#  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                          #-#  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                   #-#  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                              #-#  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                           #-#  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                   #-#  WP WRS WS     ABiotic Solids System 3
1.0E04,1.0                              #-#  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                           #-#  PI & Mass Conc. of Layer 2 & System 3
2900.0,20000.0                                                  *  X'SECT.23
4.,4.,8.,12,16,18,20,22,25,25,25,25,30,30,30,30,34,34,34,34
36,36,36,36,40,40,40,40,40,40,40,40,28,28,28,28,25,20,15,10
2650.0,-20000.0                                                 *  X'SECT.24
4.,4.,8.,12,16,18,20,22,25,25,25,25,30,30,30,30,34,34,34,34
36,36,36,36,40,40,40,40,40,40,40,40,28,28,28,28,25,20,15,10
3000.0,-15000.0                                                 *  X'SECT.25
4.,4.,8.,10,15,20,25,27,27,27,27,27,30,30,30,30,31,31,31,31
31,31,31,31,30,30,30,30,28,28,28,28,28,28,28,28,25,20,15,10
3000.0,-10000.0                                                 *  X'SECT.26
4.,4.,8.,10,15,20,25,27,27,27,27,27,30,30,30,30,31,31,31,31
31,31,31,31,30,30,30,30,28,28,28,28,28,28,28,28,25,20,15,10
2800.0,-8000.0                                                  *  X'SECT.27
4.,4.,8.,12,18,20,25,25,25,25,25,25,30,30,30,30,28,28,28,28
30,30,30,30,28,28,28,28,28,28,28,28,27,27,27,27,25,20,15,10
2900.0,-10000.0                                                 *  X'SECT.28
3.,5.,6.,10,12,14,16,20,23,23,23,23,25,25,25,25,30,30,30,30
32,32,32,32,30,30,30,30,20,20,20,20,25,25,25,25,20,15,10,5.
3300.0,-20000.0                                                 *  X'SECT.29
3.,5.,7.,8.,8.,10,12,14,18,20,20,20,20,20,20,20,20,20,20,20
0,30,30,30,40,40,40,40,40,40,40,40,30,30,30,30,20,15,10,8.
3200.0,15000.0                                                  *  X'SECT.30
3.,5.,7.,8.,8.,10,12,14,18,20,20,20,22,22,22,22,14,14,14,14
20,20,20,20,40,40,40,40,40,40,40,40,40,40,40,40,25,20,18,12
3600.0,40000.0                                                  *  X'SECT.31
4.,6.,6.,8.,8.,12,16,20,22,22,22,22,22,22,22,22,14,10,9.,9.
9.,14,15,15,20,20,20,20,27,27,27,27,27,27,27,27,25,20,15,10
4000.0,40000.0                                                  *  X'SECT.32
4.,4.,6.,8.,12,15,20,20,20,20,20,20,20,16,14,12,8.,6.,4.,4.
4.,6.,8.,12,15,18,20,20,18,4.,4.,27,27,27,27,27,27,27,25,20,10
4200.0,40000.0                                                  *  X'SECT.33
4.,6.,8.,12,18,20,25,25,25,25,25,25,25.,25.,25.,25.,25.,25.,25.,25.
25.,25.,25.,25.,25,25,25,25,30,30,30,30,27,27,27,27,27,27,15,10.
3500.0,40000.0                                                  *  X'SECT.34
```

```
10,15,20,20,25,25,25,25,25,25,25.,25.,25.,25.,25.,25.,25.,25.,25.
25,25,25,30,30,30,30,30,27,27,27,27,27,27,27,27,27,15,10,4.
3100.0,40000.0                                                    *  X'SECT.35
6.,10,15,20,27,27,27,27,30,30,30,30,27,27,27,27,27,27,27,27,27.
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,5.
2800.0,40000.0                                                    *  X'SECT.36
6.,10,15,20,30,30,30,30,35,35,35,35,40,40,40,40,20,20,20,20.
20,20,20,20,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10.
2700.0,40000.0                                                    *  X'SECT.37
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27.
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2600.0,40000.0                                                    *  X'SECT.38
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27.
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2300.0,40000.0                                                    *  X'SECT.39
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,40000.0                                                    *  X'SECT.40
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
1900.0,40000.0                                                    *  X'SECT.41
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,30000.0                                                    *  X'SECT.42
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,30000.0                                                    *  X'SECT.43
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,30000.0                                                    *  X'SECT.44
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,30000.0                                                    *  X'SECT.45
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2200.0,-20000.0                                                   *  X'SECT.46
6.,10,15,20,30,30,30,30,44,44,44,44,35,35,35,35,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,6.
2800.0,-20000.0                                                   *  X'SECT.47
4.,6.,6.,10,16,20,25,25,25,25,25,30,30,30,30,36,36,36,36
36,36,36,36,30,30,30,30,30,30,30,27,27,27,27,20,15,10,8.
3300.0,-20000.0                                                   *  X'SECT.48
4.,6.,6.,8.,8.,10,12,15,20,35,35,35,34,34,34,34,34,34,34,34
23,23,23,23,22,22,22,22,35,35,35,35,40,40,40,40,25,25,25,25
4000.0,-20000.0                                                   *  X'SECT.49
4.,6.,6.,8.,12,15,20,30,37,37,37,37,36,36,36,36,36,36,36,36
36,36,36,36,36,36,36,36,36,36,36,36,36,36,36,20,16,10,8.
```

```
5   #   NFALL at Reach 5   #   Dispersion   #
2000.0,14,0.0,0.0                                  #  XFALL NODE CONC OFALL : REACH 5
4000.0,14,0.0,0.0                                  #  XFALL NODE CONC OFALL : REACH 5
6000.0,14,0.0,0.0                                  #  XFALL NODE CONC OFALL : REACH 5
8000.0,14,0.0,0.0                                  #  XFALL NODE CONC OFALL : REACH 5
10000.0,14,0.0,0.0                                 #  XFALL NODE CONC OFALL : REACH 5
2,3,1,4,.4                                         #-#  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5   #-#  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25     #-#  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                  #-#  WP WRS WS     Biotic Solids  System 1
1.0E05,1.0                              #-#  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                          #-#  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                   #-#  WP WRS WS     ABiotic Solids System 2
0.5E05,6.0                              #-#  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                           #-#  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                   #-#  WP WRS WS     ABiotic Solids System 3
1.0E04,1.0                              #-#  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                           #-#  PI & Mass Conc. of Layer 2 & System 3
2200.0,-10000.0                                                    #  X'SECT.1
5.,5.,6.,6.,8.,8.,10,10,15,18,20,25,27,27,27,27,40,40,40,40
38,38,38,38,38,38,38,38,34,34,34,34,34,34,34,34,20,15,10,8.
1200.0,-8000.0                                                     #  X'SECT.2
10,15,20,25,30,30,30,30,32,32,32,32,40,40,40,40,58,58,58,58
55,55,55,55,34,34,34,34,34,34,34,34,32,32,32,32,25,20,10,8.
1650.0,-4000.0                                                     #  X'SECT.3
4.,4.,4.,4.,4.,4.,4.,4.,15,20,25,30,32,32,32,32,44,44,44,44
44,44,44,44,40,40,40,40,40,40,40,40,40,40,40,40,20,15,10,8.
1300.0,-2000.0                                                     #  X'SECT.4
8.,15,20,30,30,30,30,30,53,53,53,53,50,50,50,50,45,45,45,45
40,40,40,40,30,30,30,30,25,25,25,25,25,25,25,25,20,15,10,8.
1600.0,-2000.0                                                     #  X'SECT.5
4.,4.,4.,4.,6.,6.,6.,6.,10,12,14,16,18,20,27,25,30,30,30,30
32,32,32,32,45,45,45,45,53,53,53,53,45,45,45,45,20,20,15,10
1500.0,-2000.0                                                     #  X'SECT.6
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,-6000.0                                                     #  X'SECT.7
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,-10000.0                                                    #  X'SECT.8
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,10000.0                                                     #  X'SECT.9
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,10000.0                                                     #  X'SECT.10
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,12000.0                                                     #  X'SECT.11
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1500.0,12000.0                                                     #  X'SECT.12
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
```

```
1700.0,15000.0                                                    *  X'SECT.13
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
1800.0,15000.0                                                    *  X'SECT.14
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
2000.0,15000.0                                                    *  X'SECT.15
10,15,20,25,45,45,45,45,50,50,50,50,50,50,50,50,50,50,50,50,50
45,45,45,45,35,35,35,35,30,30,30,30,25,20,16,12,10,8.,6.,6.
3   #   NFALL at Reach 6   #   Dispersion   #
2000.0,14,0.0,0.0                                 #  XFALL NODE CONC QFALL : REACH 6
4000.0,14,0.0,0.0                                 #  XFALL NODE CONC QFALL : REACH 6
6000.0,14,0.0,0.0                                 #  XFALL NODE CONC QFALL : REACH 6
2,3,1,4,.4                                        *-*  NLAY NSYSTEM NPAR ISY POROSIT
1.E-7,1.E-7,1.E-7,1.E-8,1.E-6,1.E-7,2.E-5   *-*  PHK HYK BIOK OXK EVK BK BD
.25,.25,.25,.06,.06,.06,.06,.06,.06,.06,.06,.06,.25,.25,.25     *-*  BEDH2(J)
8.0E-5,1.26E-9,1.0E-15                  *-*  WP WRS WS      Biotic Solids  System 1
1.0E05,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 1
1.0E05,6.36E04                          *-*  PI & Mass Conc. of Layer 2 & System 1
3.2E-4,1.6E-8,1.0E-15                   *-*  WP WRS WS      ABiotic Solids System 2
0.5E05,6.0                              *-*  PI & Mass Conc. of Layer 1 & System 2
0.5E05,1.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 2
3.2E-2,1.0E-7,1.0E-15                   *-*  WP WRS WS      ABiotic Solids System 3
1.0E04,1.0                              *-*  PI & Mass Conc. of Layer 1 & System 3
1.0E04,3.2E05                           *-*  PI & Mass Conc. of Layer 2 & System 3
1800.0,-10000.0                                                   *  X'SECT.1
4.,4.,4.,4.,10,12,16,18,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
1500.0,-10000.0                                                   *  X'SECT.2
4.,6.,6.,8.,10,12,16,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
1500.0,-10000.0                                                   *  X'SECT.3
4.,6.,6.,8.,10,12,16,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
2000.0,-12000.0                                                   *  X'SECT.4
4.,4.,4.,4.,8.,10,15,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,20,15,10,10,8.
2000.0,15000.0                                                    *  X'SECT.5
4.,6.,8.,10,12,16,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,12,10,8.,6.,6.
2000.0,15000.0                                                    *  X'SECT.6
4.,6.,8.,10,12,16,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,12,10,8.,6.,6.
1700.0,15000.0                                                    *  X'SECT.7
4.,6.,8.,10,12,16,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,12,10,8.,6.,6.
1500.0,20000.0                                                    *  X'SECT.8
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
1600.0,20000.0                                                    *  X'SECT.9
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
1600.0,20000.0                                                    *  X'SECT.10
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27,27
```

```
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
2000.0,20000.0                                                  *  X'SECT.11
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
2000.0,20000.0                                                  *  X'SECT.12
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
2000.0,20000.0                                                  *  X'SECT.13
4.,6.,8.,10,12,15,18,20,27,27,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,10,8.
1300.0,20000.0                                                  *  X'SECT.14
6.,6.,10,12,15,20,25,30,30,30,30,30,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
1700.0,20000.0                                                  *  X'SECT.15
6.,6.,6.,6.,8.,10,12,14,20,25,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
1700.0,20000.0                                                  *  X'SECT.16
6.,6.,6.,6.,8.,10,12,14,20,25,27,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,27,27,25,20,15,10
1400.0,20000.0                                                  *  X'SECT.17
6.,6.,6.,6.,8.,10,12,15,20,25,25,25,25,25,25,25,25,25,25,25
25,25,25,25,25,25,25,25,25,25,25,25,25,25,25,20,15,10,8.
1700.0,20000.0                                                  *  X'SECT.18
10,15,20,25,25,25,25,25,25,25,25,27,27,27,27,27,27,27,27,27
27,27,27,27,27,27,27,27,27,27,27,27,27,20,15,12,10,8.,6.
2500.0,20000.0                                                  *  X'SECT.19
10,15,20,25,27,27,27,27,27,27,27,27,27,27,27,25,15,10,10
12,15,15,15,20,20,20,20,27,27,27,27,25,25,25,25,25,15,10,8.
```

APPENDIX 8

MODELLING PROGRAM FOR LOAD ALLOCATION

APPENDIX 8

LOAD ALLOCATION PROGRAMME

A simple programme "VARLG" has been written to compute load allocations based on input from:

i) a load response model e.g. KETOX,
ii) a load frequency curve,
iii) a receiving stream flow frequency curve
iv) a model calibration frequency curve
v) background concentrations at the site
vi) a receiving water or system objective

The river flow and load variations and the calibration errors in the model are assumed to be random log-normally distributed and independent. The model is interactive and is initiated by typing "VARLG". This is followed by the screen prompts shown on the following page. In answering to the load response prompt, the user enters only one point on the load versus concentration curve developed by any calibration model. The load units should be in g/day and the concentration in either ng/L for water or ng/g for sediment and biota.

ATIVIDEO version 1.02

C: LOAD

Desired level of compliance in % = 95
Background concentration = 0
PWQO = 6.5
Q var = ? 1.25
C var = ? 2
L var = ? 5
Multiplier for concentration load curve = 5.850365
Median load, concentration @ RMZ for BGD = 0 7.5, 10
Median load allocation for 50 percent compliance is 4.875 in g/d
Median load allocation for 95 percent compliance is .8332813 in g/d
Median load allocation for 50 percent compliance is 5.855854 in g/d
Average load allocation for 95 percent compliance is 1.000938 in g/d

APPENDIX 9

LOAD ALLOCATIONS FOR WATER, BIOTA AND SEDIMENTS BY CHEMICAL AND OUTFALL

INTRODUCTION

This appendix contains the load allocation estimates for all of the outfalls that were investigated in this study and for the parameters of concern that have established objectives or that have tentative guidelines. Tables IX.1a and IX.1b show the available MOE objectives as well as criteria from other agencies such as the U.S. EPA. Some criteria have been calculated from existing criteria to reflect varying fish consumption levels.

The criteria given in Tables IX.1a and b were applied at the edge of the mixing zone (MZ) of each outfall with the exception that the Walpole Island consumption criteria was only applied at the Chanel Ecarte since this was regarded as the likely fishing limit of the Walpole Island First Nation Indian Band.

The sediment and biota criteria at the present time should be regarded as tentative due to uncertainties in the criteria and the model predictions. The sediment model is subject to high calibration errors while there are uncertainties in the biota results relating to bioavailability. More field studies are required to help resolve these problems.

BASIC DATA

Table IX.2 shows a summary of the average mean monthly loads and the extreme mean monthly loads as measured in the long-term monitoring component of the pilot site study. The extreme load has to be estimated as the monthly load which is equalled or exceeded in 5% of the months. A log-normal distribution was found to fit well for all of the monthly loadings.

Table IX.3 shows the ratios of the extreme monthly loads to the median monthly loads based on a log-normal fitting to the measured mean monthly loads. Table IX.4 shows the relationship between the mean monthly and the median monthly loads.

WATER-BASED ALLOCATION

The allocation procedure given in Section 6.6 of Volume II, Part II was repeated for all parameters of concern for all available water quality criteria. Table IX.5 shows the water concentration at the edge of the MZ for a 1 kg/d load at each of the outfalls for zero background. The results are summarized in Table IX.6. The results are given as the allowable mean monthly load to meet a 95% compliance target. These allowable loads are compared with the existing mean loads and the lower of these loads is used as the allocated load. The water criteria are shown in Table IX.1a. For comparison purposes, the 50% compliance loads are also given in Table IX.6.

BIOTA-BASED ALLOCATIONS

Individual Outfalls:

A total of up to 5 different biota criteria have been proposed for the protection of aquatic life and human health as shown in Table IX.1b. The human health criteria are adjusted for the expected consumption rates of the potential users based on the average consumption level of 6.5 g/day used in establishing the draft guideline for the E.P.A. The criteria based on the fish consumption rate of the average Ontario angler was taken as the most severe criteria for the mixing zones of the outfalls of this study. Table IX.7 shows the body burden response to a steady load of 1 kg/d from an individual outfall with zero background. All the chemical is assumed to be bioavailable. Table IX.5 indicates ranges of dissolved fraction which are representative of the fraction of the chemical which is bioavailable.

Table IX.8 to IX.12 give the individual allowable average monthly loads to mean various criteria for individual outfalls based on a zero background level. Loads for 50% and 95% compliance targets are given.

Table IX.13 compared the food chain results of the Thomann Model with the unsteady model of Dr. F. Gobas (University of Windsor, Great Lakes Institute) for a unit load at the Cole drain.

Walpole Island:

A more restrictive criterion was used to estimate maximum allowable loads for the protection of the First Nation Walpole Island Indian Band. The KETOX model was applied to determine the load-water response relationship between the major outfalls and the Chanel Ecarte. The Thomann Food Chain model was then applied to obtain the load-fish response relationship. The VARLG allocation programme was then used to estimate the 50% and the 95% compliance target average loads. The estimated loads are shown in Tables IX.14 to IX.18. These loads represent the summation of all loads from the Canadian side of the river upstream of the Chenal Ecarte. In order to give some indication of the possible magnitude of the allowable loads where no criteria existed, the available biota protection criterion was adjusted for high consumption.

SEDIMENT-BASED ALLOCATION

Table IX.19 shows the steady state bed sediment concentration at the end of the MZ for a unit load (1 kg/d) from an individual outfall with zero background. Sediment guidelines were only available for HCB and mercury. The estimated allowable loads to meet these guidelines are shown in Table IX.20.

LOAD ALLOCATION BASED ON THE MOST RESTRICTIVE CRITERIA

Ultimately, the load allocated to an outfall should be based on the most restrictive use. At the present time, the sediment- and biota-based loads are only tentative. However, based on the water, biota, and sediment loads it is possible to derive tentative load allocations for the outfalls of this study based on the most restrictive use. In all cases, it is presumed that the allocated load will not exceed the existing load. In addition, there may be a restriction on the sum of all the loads in order to protect the health of the high consumers on Walpole Island.

Table IX.21 shows the load allocation based on the most restrictive use at the Dow/Polysar site.

In the planning of abatement strategy it is important to consider the present extreme variability in the loading. For example, OCS has extreme loads which are of the order of 100 times the median load; this results in very small load allocations to meet 95% compliance.

TABLE IX.1a: SUGGESTED WATER QUALITY OBJECTIVES

Substance	Water Quality Criteria (mg/L)	Source
Hexachlorobenzene	.0000065	PWQO[1]
Hexachlorobutadiene	.0001	CCREM[2]
Hexachloroethane	.013	Michigan[3]
Carbon Tetrachloride	.027	Michigan[3]
Tetrachloroethylene	.26	CCREM[2]
Octachlorostyrene	.0000001	MOE[4]
2,4,5 - Trichlorotoluene	.000117*	MOE[4]
Mercury	.0002	PWQO[1]

LEGEND:

[1] - MOE Provincial Water Quality Objective for the Protection of Aquatic Life.
[2] - CCREM Water Quality Guideline for the Protection of Aquatic Life.
[3] - Michigan Department of Natural Resources Guideline for the Protection of Aquatic Life.
[4] - Ontario Ministry of the Environment tentative Advisory: conservative value based on limited toxicological information. More information required to develop Provincial Water Quality Objective (PWQO) or Guideline (PWQG).
* - Subsequently modified to .000134 mg/L following provision of additional information.

TABLE IX.1b: EXISTING AND CALCULATED OBJECTIVES FOR BIOTA AND SEDIMENT

Substance	Biota Criteria (µg/g)	Sediment Criteria (µg/g)
Hexachlorobenzene	.33 .0064[2] .0017[3] .00036[4]	0.08[6]
Hexachlorobutadiene	1.3[1]	-
Hexachloroethane	14.1[1]	-
Octachlorostyrene	0.02[1]	-
Mercury	0.5[5] 0.133[3] 0.028[4]	0.3[7]

LEGEND FOR TABLE IX.1b:

1. Non-carcinogenic fish flesh criteria to protect piscivarous wildlife as developed by New York State (NYS) Dept. of Env. Conservation (1987).

2. U.S. EPA draft fish consumption guideline for the protection of human health (10^{-6} Cancer risk) based on average U.S. consumption levels of 6.5 g/day.

3. Calculated value based on existing consumption guideline corrected for fish consumption by the average Ontario angler of 24.7 g/day.

4. Calculated value based on existing consumption guideline corrected for fish consumption by an Ontario high fish consumer e.g. First Nation Walpole Island Indian Band (117 g/day).

5. Ontario Ministry of the Environment fish consumption guideline

6. Draft bulk sediment guideline for the protection of benthic invertebrates as submitted to MOE through external contract. MOE has not yet endorsed the approach or guideline.

7. Ontario Ministry of the Environment dredging guideline.

Table IX.2 : Observed Mean Monthly Loads 1986-1987

Loads g/d	OCS	HCB	TCT	HCBD	HCE	PERC	CCL4	Hg
Cole								
Mean	9.2	8.9	9.6	140	6.8	48	7.9	2.2
Extreme	332	92	280	991	29	375	62	11.5
Polysar								
Mean	.2	.1	.001	1	.1	6.9	2.7	.4
Extreme	11	1	.004	7.1	.4	54	21	5.1
Dow 1st								
Mean	3.1	7.5	50	31	80	2190	2972	4.4
Extreme	8.3	31	165	130	3000	18000	22000	15
Dow 2nd								
Mean	.3	1.0	1.9	4	1.5	153	188	2.8
Extreme	30	5.0	14.8	69	20	2500	622	87
Dow 3rd								
Mean	.1	0.1	.2	1.9	.04	25	254	2.7
Extreme	16	.5	3.7	125	.1	370	1300	11.3
Dow 4th								
Mean	.6	3.3	1.4	4.7	36	684	676	6.4
Extreme	10	58	40	16	381	6600	3000	22

Mean = Existing Mean Monthly load; Extreme = load exceeded in 5 % of months.

Table IX. 3 Ratio of Extreme Loads to Median Loads Based on Mean Monthly Data (L5 L50)

Outfall	Hg	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Cole Drain	6.7	44	55	11	11	8.7	5	14
Polv-sar	84	5	140	11	11	8.7	5	14
Dow 1	4	4	3	9.8	9.8	5	70	5
Dow 2	34	10	200	3.7	24	24	17	11.5
Dow 3	4.9	23	185	6.2	19	100	4.3	6.2
Dow 4	4	43	27	6.2	14	3.75	14	25

Table IX. 4 Relationship between Mean and Median Loads

Approximate Conversion Factors from Median to Average Load

Outfall No.	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Sole Drain	1.26	1.48	1.55	1.28	1.28	1.24	1.17	1.352
Poly-bar	1.65	1.18	1.7	1.28	1.28	1.24	1.17	1.45
Dow 1	1.18	1.18	1.12	1.24	1.24	1.19	1.55	1.19
Dow 2	1.33	1.28	1.85	1.12	1.4	1.4	1.28	1.3
Dow 3	1.19	1.42	1.8	1.31	1.28	1.52	1.18	1.21
Dow 4	1.17	1.5	1.45	1.33	1.43	1.15	1.33	1.42

Table IX.5 Total Water Response to a Unit Load
(1 kg / day)
Water Concentrations at X = 100 ft Downstream of Outfall [ng/L]

Outfall	Hg	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Cole Drain	149.4 60-70*	149.4 60-90*	149.4 5-80*	149.4 80-100*	149.4 80-100*	149.4 50-90*	149.4 80-100*	149.4 10-90*
Poly-sar	823.4	822.8	823.4	823	823	823.1	823	823.3
Dow 1	815	814.3	815	814.5	814.5	814.6	814.6	815
Dow 2	815.6	815	815.6	815.1	815.1	815.3	815.1	815.5
Dow 3	902.2	901.8	902.2	902	902	902.1	902	902.1
Dow 4	900.9	900.4	900.9	900.7	900.7	900.8	900.7	900.8

* Per cent dissolved depends on TOC in suspended solids as well as other factors such as location with respect to the end-of-pipe.

Table IX.6: SUMMARY OF WATER BASED LOAD ALLOCATIONS (Background = 0)

Loads g/d	OCS	HCB	TCT	HCBD	HCE	PERC	CC14	Hg
Cole Drain:								
Existing	9.2	8.9	9.6	140	6.8	48	7.9	2.2
Model 50%	1.1W	59W	1060W	830W	1E5	7E4	2E5	1690W
Model 95%	.02W	3.9W	23W	87W	1.8E4W	6000W	2E4W	232W
Allowable	.02W	3.9W	9.6W	87W	6.8E	48E	7.9E	2.2E
Polysar:								
Existing	.2	0.1	.001	1	.1	6.9	2.7	.4
Model 50%	.02W	11W	160W	150W	1.9E4	1E4W	4E4W	400W
Model 95%	.002W	.7W	27.4W	16W	3000W	1000W	3000W	4.6W
Allowable	.002W	0.1E	.001E	1E	0.1E	6.9E	2.7E	.4E
Dow 1st Street:								
Existing	3.1	7.5	50	31	80	2190	2970	4.4
Model 50%	.014W	9.5	160W	146W	2.6E4	1.2E4W	4E4W	400W
Model 95%	.039W	1.7W	34W	26W	338W	1000W	3000W	63.5W
Allowable	.039W	1.7E	34W	26W	80E	1000W	2970E	4.4E
Dow 2nd Street:								
Existing	.3	1	1.9	4	1.5	153	188	2.8
Model 50%	.2W	10W	170W	170W	2E4W	1.4E4W	4E4W	375W
Model 95%	.001W	.8W	15.5W	6.7W	1200W	539W	9000W	10.4W
Allowable	.001W	.8W	1.9E	4E	1.5E	153E	188E	2.8E
Dow 3rd Street:								
Existing	.1	.1	.2	1.9	.4	25	254	2.7
Model 50%	.2W	9W	170W	180W	1.7E4W	1.2E4	4E4	265W
Model 95%	.001W	1.3W	6.8W	1.7W	3500W	561W	5000W	47W
Allowable	.001W	.1E	.2E	1.7W	.4E	25E	254E	2.7E
Dow 4th Street:								
Existing	.5	3.3	1.4	4.7	36.2	684	676	6.4
Model 50%	.16W	10W	171W	130W	1.9E4W	1.2E4W	4E4W	260W
Model 95%	.005W	.4W	3.9W	29W	1300W	786W	5000W	57W
Allowable	.005W	.4W	1.4E	4.7E	36.2E	684E	676E	6.4E

Existing = Existing mean monthly load; Model 95% = mean monthly load for a target of 95 % compliance; Allowable = allocated mean monthly load; W = Water; E = existing load; T = Toxic limit; 0 = non- detectable load.

Table 1X. 7 Biota Response to a Unit Load
(1 kg/d)

Biota Concentrations at X. = 100 ft Downstream of Outfall

Outfall	Hg	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Cole Drain	200	210	29000	1.6	2.8	240	14	1300
Poly-sar	1100	1100	160000	9	16	1300	78	7000
Dow 1	1100	1100	160000	9	16	1300	78	7000
Dow 2	1100	1100	160000	9	16	1300	78	7000
Dow 3	1200	1200	170000	9.8	17	1400	86	7700
Dow 4	1200	1200	170000	9.8	17	1400	86	7700
log Kow	4.7	4.72	6.28	2.64	2.88	4.78	3.58	5.5

Note: No correction has been made for bioavailability.

Table IX. 8 Allocated Loads at Outfall MZs for Various Biota Criteria for 50% and 95% Compliance Targets

HCB - Average Load for 50 and 95 Compliance [g d]

Criteria		Aquatic	EPA	Average Ontario Angler	Walpole Island Band
0.1 ng		630	6.4	1.7	0.36
Cole Drain	50	343.0	6.6	1.8	0.38
	95	14.6	0.4	0.1	0.02
Poly-sar	50	63.6	1.2	0.32	0.067
	95	3.6	0.07	0.02	0.004
Dow 1	50	96	1.1	0.29	0.06
	95	7.8	0.13	0.04	0.009
Dow 2	50	61	1.2	0.3	0.07
	95	4.2	0.08	0.021	0.005
Dow 3	50	21.8	1.0	0.27	0.057
	95	5.0	0.12	0.031	0.0067
Dow 4	50	60.8	1.18	0.31	0.067
	95	2.0	0.04	0.01	0.002

Table IX. 9 Allocated Loads at Outfall MZs for Various Biota Criteria for 50% and 95% Compliance Targets

OCS - Average Load for 50 and 95% Compliance [g/d]

Criteria		Fish Eating Wildlife
ng g		20.0
Cole Drain	50%	1.1
	95%	0.02
Poly-sar	50%	0.2
	95%	0.001
Dow 1	50%	0.14
	95%	0.03
Dow 2	50%	0.23
	95%	0.001
Dow 3	50%	0.22
	95%	0.001
Dow 4	50%	0.17
	95%	0.005

Table IX. 10 Allocated Loads at Outfall MZs for Various Biota Criteria for 50% and 95% Compliance Targets

HCBD - Average Load for 50 and 95 Compliance [g d]

Criteria		Fish Eating Wildlife
ng g		1300.0
Dole	50	6710.0
Grain	95	583.0
Poly-	50	1240.0
mi	95	108.0
Dow 1	50	1140.0
	95	168.0
Dow 2	50	1405.0
	95	48.0
Dow 3	50	1411.0
	95	12.3
Dow 4	50	1067.0
	95	127.0

Table IX. 11 Allocated Loads at Outfall MZs for Various Biota Criteria for 50% and 95% Compliance Targets

HCE - Average Load for 50% and 95% Compliance (g/d)

Criteria		Fish Eating Wildlife
ng/g		14100.0
Cole Drain	50%	1178357
	95%	166454
Polv-sar	50%	211500
	95%	29867
Dow 1	50%	280192
	95%	3467
Dow 2	50%	231384
	95%	11022
Dow 3	50%	193464
	95%	30875
Dow 4	50%	218057
	95%	12433

Table IX. 12 Allocated Loads at Outfall MZs for Various Biota Criteria for 50% and 95% Compliance Targets

Mercury - Average Load for 50% and 95% Compliance (g/d)

Criteria		MOE	Average Ontario Angler	Walpole Island Band
ng/g		500	133	28
Whole Brain	50%	8150.0	838.0	176.0
	95%	351.0	93.0	14.7
Liver	50%	749.0	200.0	42.0
	95%	7.6	2.0	0.5
Dow 1	50%	536.0	143.0	30.0
	95%	91.0	24.0	5.0
Dow 2	50%	895.0	185.0	39.0
	95%	17.0	4.6	0.9
Dow 3	50%	495.0	132.0	28.0
	95%	70.0	19.0	3.9
Dow 4	50%	487.0	130.0	27.0
	95%	82.0	22.0	4.6

Table XI.13 Comparison of the Thomann and Gobas Food Chain Model Predictions for Body Burdens in Large Fish for a Unit Load (1 kg / day)

Biota Concentrations at X_c = 120 ft Downstream of Outfall [ng/g]

Outfall: Cole Drain

Model	Hg	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Gobas	220.0	231.0	10996	1.9	3.3	265.0	16.5	1485.0
Thomann	200.0	210.0	29000	1.6	2.8	240.0	14.0	1300.0

Table IX. 14 Allocation of Total Loading Upstream of Chenal Ecarte Based on the Walpole Island Indian Band Consumption Rate

OCS- Average Load for 50 and 95 Compliance [g/d]

Criteria	Fish Eating Wildlife
mg/g	20.0
Chenal 50	22.9
Ecarte 95	0.45

Table IX. 15 Allocation of Total Loading Upstream of Chenal Ecarte Based on Biota For the Protection of Aquatic Life And Human Health

HCB- Average Load for 50% and 95% Compliance [g/d]

Criteria	Aquatic	EPA	Average Ontario Angler	Walpole Island Band
ng g	330.0	6.4	1.7	0.36
Chenal 50%	7543.0	146.0	38.9	9.0
Ecarte 95%	590.0	11.4	3.1	0.7

Table IX. 16 Allocation of Total Loading Upstream of Chenal Ecarte Based on Biota For the Protection of Human Health Based on the Walpole Island Indian Band Consumption Rate

HCBD- Average Load for 50 and 95 Compliance [g d]

Criteria	Fish Eating Wildlife
n.i g	1300
Chenal 50	14.364
Ecarte 95	13592

Table IX. 17 Allocation of Total Loading Upstream of Chenal Ecarte Based on Biota For the Protection of Human Health Based on the Walpole Island Indian Band Consumption Rate

Mercury- Average Load for 50% and 95% Compliance [g/d]

Criteria	MOE	Average Ontario Angler	Walpole Island Band
ng/g	500	133	28
Chenal 50%	62241	17887	3765
Ecarte 95%	11360	3022	636

Table IX. 18 Allocation of Total Loading Upstream of Chenal Ecarte Based on Biota For the Protection of Human Health Based on the Walpole Island Indian Band Consumption Rate

HCE - Average Load for 50% and 95% Compliance [g d]

Criteria	Fish Eating Wildlife
n.a. g	14100
Chenal 50	3.1E7
Ecarte 95%	640116

Table IX.19 **Bed Sediment Response to a Unit Load**
(1 kg / day)
Particulate Concentrations at X = 100 ft Downstream of Outfall [ng/g] [ppb]

Outfall	Hg	2,4,5 TCT	OCS	CTC	PERC	HCBD	HCE	HCB
Cole Drain	5E3	3E3	6E4	150	200	3E3	6E2	1E4
Polysar	3E4	2E4	4E5	800	1000	2E4	3E3	6E4
Dow 1	3E4	2E4	3E5	800	1000	2E4	3E3	5E4
Dow 2	3E4	2E4	3E5	800	1000	2E4	3E3	5E4
Dow 3	3E4	2E4	4E5	900	1000	2E4	3E3	6E4
Dow 4	3E4	2E4	4E5	900	1000	2E4	3E3	6E4

Table IX. 20 Allocated Loads Based on the Available Sediment Criteria (Bed Sediment) for 50% and 95% Compliance Targets

Mercury & HCB - Average Load for 50% and 95% Compliance Targets [g/d]

		Hg	HCB
Cole Drain	50%	100	16
	95%	3.6	0.4
Bay-Salt	50%	25	3
	95%	0.15	0.07
Box 1	50%	14	2.7
	95%	0.7	0.1
Box 2	50%	20	3
	95%	0.2	0.07
Box 3	50%	13	3
	95%	0.6	0.07
Box 4	50%	13	3
	95%	0.6	0.04

Table IX.21: Summary of Load Allocations (Background = 0)
Based on the Most Restrictive Use at the
Edge of the MZ

Loads g/d	OCS	HCB	TCT	HCBD	HCE	PERC	CC14	Hg
Cole Drain:								
Existing	9.2	8.9	9.6	140	6.8	48	7.9	2.2
Model 95%	.02W	.1B2	23W	87W	18000W	6000W	21000W	4S
Allowable	.02W	.1B2	9.6E	87W	6.8E	48E	7.9E	2.2E
Polysar:								
Existing	.2	0.1	.001	1	.1	6.9	2.7	.4
Model 95%	.002W	.02B2	27.4W	15.7W	3000W	1000W	3000W	.15S
Allowable	.002W	.02B2	.001E	1E	0.1E	6.9E	2.7E	.15S
Dow 1st Street:								
Existing	3.1	7.5	50	31	80	2190	2972	4.4
Model 95%	.039W	.04B2	34W	26W	340W	1000W	3000W	.7S
Allowable	.039W	.04B2	34W	26W	80E	1000W	2972E	.7S
Dow 2nd Street:								
Existing	.3	1	1.9	4	1.5	153	188	2.8
Model 95%	.001W	.02B2	15.5W	6.7W	1000W	540W	8700W	.2S
Allowable	.001W	.02B2	1.9E	4E	1.5E	153E	188E	.2S
Dow 3rd Street:								
Existing	.1	.1	.2	1.9	.4	25	254	2.7
Model 95%	.001W	.03B2	6.8W	1.7W	3000W	560W	5300W	.6S
Allowable	.001W	.03B2	.2E	1.7W	.4E	25E	254E	.6S
Dow 4th Street:								
Existing	.5	3.3	1.4	4.7	36.2	684	676	6.4
Model 95%	.005W	.01B2	3.9W	29W	1300W	790W	5000W	.6S
Allowable	.005W	.01B2	1.4E	4.7E	36.2E	684E	676E	.6S
Limiting Sum	.05B5	.7B5	-	763B5	30000B5	-	-	636B5

Existing = Existing mean monthly load; Model 95% = mean monthly load for a target of 95 % compliance; Allowable = allocated mean monthly load; W = Water; S = Sediment; B1 = Protection of Biota ; B2 = Human health from consumption of fish; B5 = Walpole Island Criteria; E = existing load; T = Toxic limit; 0 = non- detectable load.